WEBEXCHANGER

User Guide

Version: 5

Last Update: Friday, 27 July 2007

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Documentation Revision History

VENDOCS Version No.	Date	Author(s)	Comments
1	30/05/06	Andrew Smith	First draft release for review.
.2	18/09/06	Andrew Smith	Second draft release for review.
2A	29/09/06	Andrew Smith	Final edits to prepare for first version for publish. Published as Version 1.0 to Market Participants.
3	18/10/06	Andrew Smith	Update as per participant feedback regarding first published version. Published as Version 2.0 to Market Participants.
3A	17/10/06	Andrew Smith	Published as version 3.0.
4	24/01/07	Andrew Smith	Final updates, publish, sign-off and release.
5	27/07/07	Andrew Smith	Minor updates and re-published as Version 5.

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Introduction to WebExchanger

The WebExchanger (WEX) is a web-based application that is provided for use by participants in the Victorian Gas Market. Each participant must submit important daily market information to AEMO (i.e. withdrawal and/or injection bids, demand forecast and uplift hedges) as required for each gas day in accordance with the new Market and System Operations Rules (MSOR).

It is important that participants understand these rules and the benefits of compliance.

AEMO will use submitted market information as part of the input required in order to produce required scheduling instructions for the gas market. Schedules will be provided to relevant participants via the Market Information Bulletin Board (MIBB).

The WebExchanger, built on Java Enterprise technology, aims to provide a flexible and efficient interface to other system components and supports processes that have been developed for the new gas market.

Functionality

The main functions of the WebExchanger are as follows:

- Enable market participants to enter daily gas market information:
    - Market bids (injections and controllable withdrawals).
    - Demand forecast (uncontrollable withdrawals).
    - Injection hedge nominations.
    - Agency injection hedge nominations (if required).
    - Agency confirmations (if required).
- Validate submissions of bids.
- Generate email messages to participants as required, (e.g. re agency hedges).

All information submitted is written directly into AEMO internal systems for processing.

Data may be manually entered, entered via file upload or submitted through automated processes (web services). The different methods and processes are detailed in this guide.

Getting into the WebExchanger

Register for WebExchanger Access (MIBB Account)

User access to the WebExchanger must be registered through a valid MIBB user account:

- **Existing MIBB Users:** Complete the MIBB Account Access and Password Change Request Form, and tick the *WebExchanger* option in the *Access Required* field.
- **New Users:** Must apply for a MIBB Account (and tick the *WebExchanger* option in the *Access Required* field).
- **Participants who wish to be involved in Agency Nominations/Confirmations** are required to submit additional registration information. Market Participants are required to provide appropriate distribution list details to AEMO to ensure that all email is distributed according to the participants needs.

The *MIBB Account Access and Password Change Request Form* can be found at:

http://mibb.vencorp.vic.gov.au/Public_Dir/Documents/ > Mibb_Access_Forms_and_Docs.zip

Login

You must have an account set up by the system administrator with the appropriate access permissions once the registration process has been completed.

In order to access the WebExchanger you need to have a username and password.

The system provides each market participant with access to the market information and details which is relevant to profile (e.g. drop down lists provide access to meters and settings only to which each participant has access permissions, and/or the appropriate contractual arrangements).

WebExchanger Help Desk

Any WebExchanger issues to be directed through existing AEMO help desk procedures via gas.helpdesk@aemo.com.au or (03) 8664 6500.

WebExchanger Security

The Standard IT Security Policy applies to all common security requirements including:

- Password security.
- System time-outs.

- Bid entry start and cut off times (as per MSO Rules).
- Participant data confidentiality.

Password security operates along the following guidelines:

- Must be changed at least every 42 days.
- Must be at least six characters in length.
- The system remembers up to 13 previous passwords.
- Must meet complexity requirements.
- All accounts are locked on three unsuccessful attempts to login and will require an administrator to unlock.
- Participants are encouraged to have individual accounts for each user. This helps AEMO manage accounts more easily, and helps to avoid problems such as the changing of passwords among multiple users, and so on.
- Only nominated MIBB security officer who have been appointed from each organisation, can approve account changes.

Note

Complexity Requirements:

- The new password must not contain all or part of the user's account name.
- Contain characters from three of the following four categories:
  - English uppercase characters (A through Z)
  - English lowercase characters (a through z)
  - Base 10 digits (0 through 9)
  - Non-alphabetic characters (for example, !, $, #, %)

Complexity requirements are enforced when passwords are changed or created.

Time out

The WebExchanger application will 'time-out' if it is left inactive for more than 30 minutes.

- Any data entered or partly entered will be lost.
- You will be returned to the login screen.

NOTE that data that has been submitted before the WebExchanger timeout will be processed normally – only data that has not been submitted will be lost.

WebExchanger Screen

The screen contains several elements which change in relation to the function being performed.

Figure 1 shows the WebExchanger Home Page, which contains all generic elements:

- Main Work Area.
- Main Menu.
- Actions Menu.
- Login Details and System Clock.

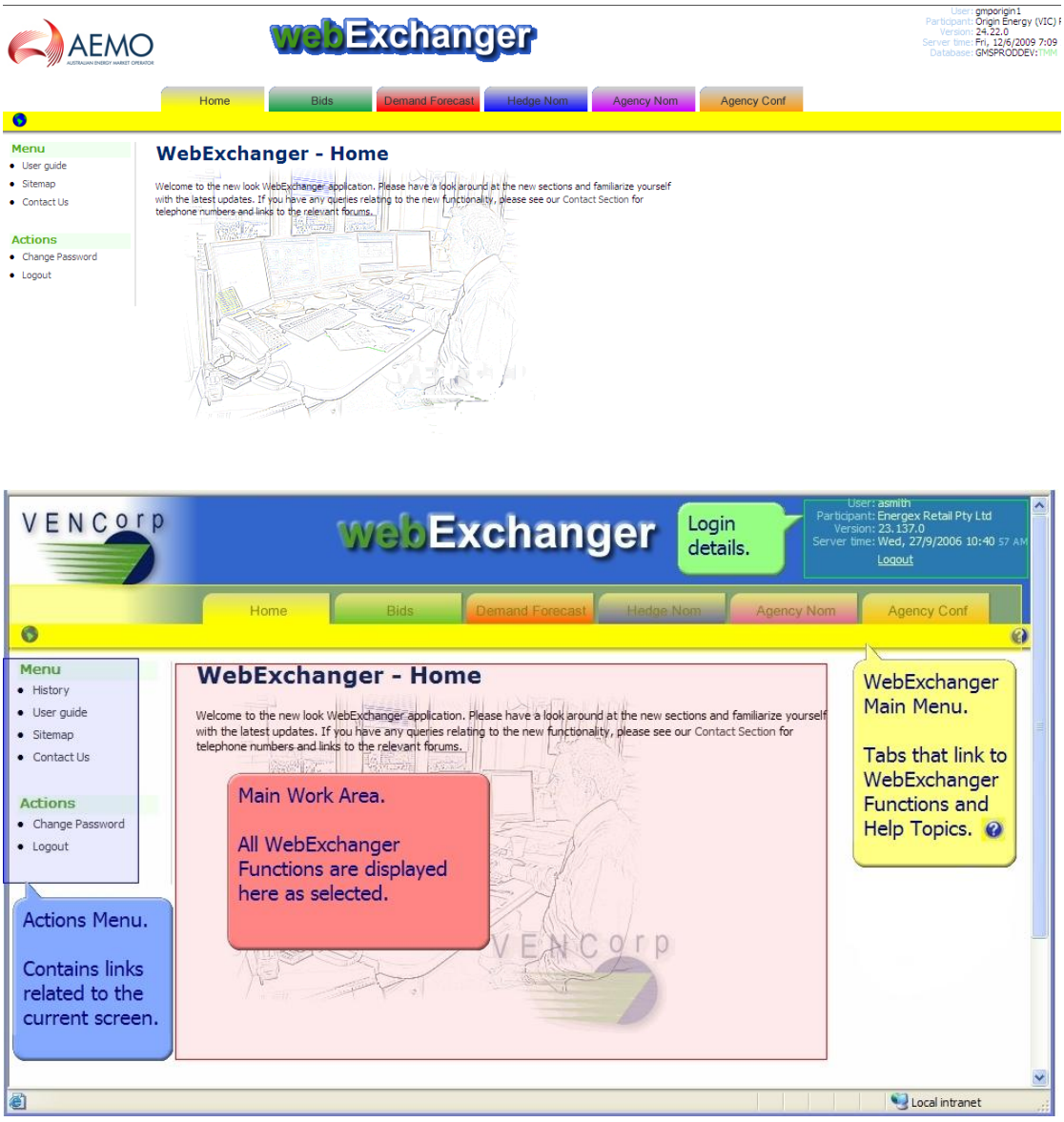


Figure 1: WebExchanger Home Page

WebExchanger Main Menu

Each tab on the WebExchanger **Main Menu** provides access to all WebExchanger functions (i.e. use the Bids tab to access all bids functions).

Figure 2: WebExchanger Main Menu

The functionality attached to each tab is described in Table 1:

Home	• General information. • Access to home page action menu items.
Bids	• Create new bids (injection and/or withdrawal). • Search for and modify existing bids (save as new). • Revise current day bids. • Submit bids. • Review bids.
Demand Forecast	• Create new demand forecast. • Search for and modify existing forecast (save as new). • Revise current day forecast. • Submit demand forecast. • Review demand forecast.
Hedge Nomination	• Create new nomination. • Search for and modify existing nomination (save as new). • Revise current day nomination. • Submit nomination. • Review nomination.

Agency Nomination	• Create new agency nomination. • Search for and modify existing nomination (save as new). • Revise current day agency nomination. • Submit agency nomination. • Review agency nomination. • Withdraw agency nomination.
Agency Conf	• View agency nomination. • Confirm agency nomination. • Confirm agency nomination withdrawal.

Table 1: WebExchanger Main Menu and Functions.

System Clock

AEMO IT systems run on AEST (Australian Eastern Standard Time). Obviously this means that market participants must make the necessary adjustments during any non-standard period (e.g. daylight savings). AEMO systems run to AEST (Australian Eastern Standard Time) all year round.

The WebExchanger interface shows the system clock at all times during log in (located with the log in details in the upper right corner of the screen).

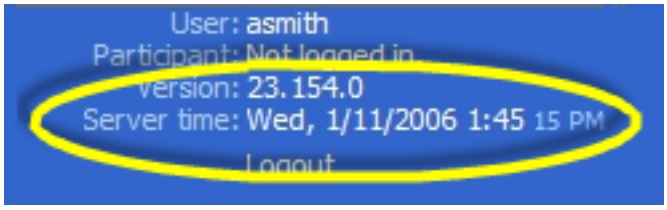


Figure 3: The AEMO Server Clock

Actions Menu

Depending on which page is currently selected, there is an actions menu on the left side of the screen.

This menu provides short cuts to a few basic functions, relevant to the screen that is showing.

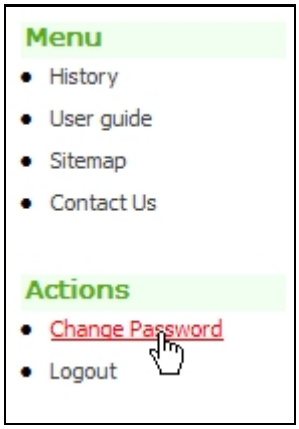


Figure 4: Actions Menu

Change Password

The **Change Password** screen provides a simple form for the task of updating your password.

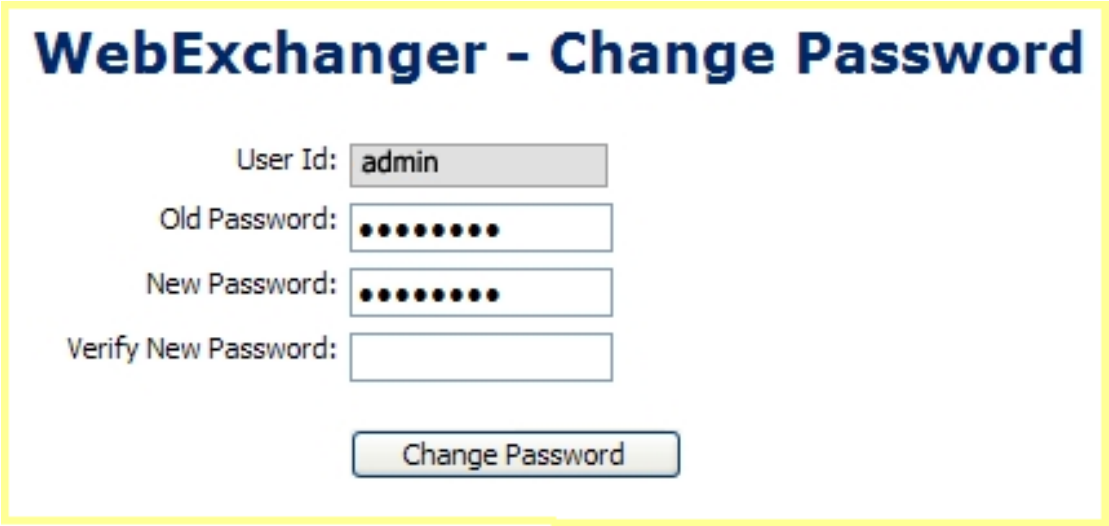


Figure 5: Change Password Screen

To Change Password:

Task/Function	Steps/Details
Change Password	1. Click on the **Home** tab. 2. Click on **Change Password** in the Actions Menu. (See: Figure 4). The **Change Password** screen appears. 3. Enter the **Old Password**. 4. Enter the **New Password**, and then re-enter (**Verify**) the New Password. 5. Click on **Change Password**. The change will take effect at the next time the user logs in to the Web Exchanger.

Calendar Function

Use the Calendar function to select date ranges when searching for existing bids entries. This ensures that dates are entered into the WebExchanger in the correct format.

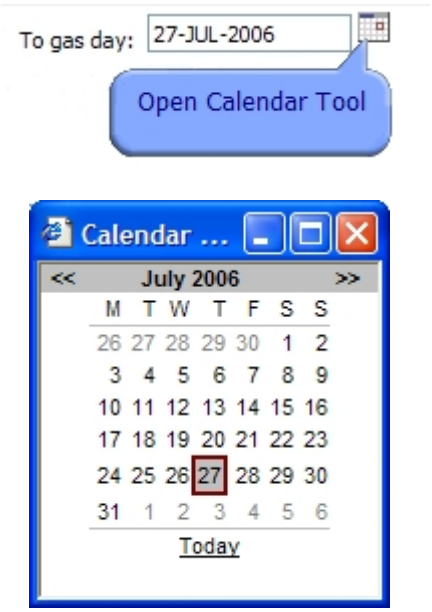


Figure 6: Calendar Tool

- Click the Calendar icon to the right of any date field to open the calendar tool.
- Click on a date to select it.
- To scroll forward or backward through the months click on the << >> icons.
- To return to the *current* date at any time, click the **Today** link.

NOTE: The Gas Day in the new gas market is defined as being from 6:00am – 6:00am.

(See also: Date Selection on Page 27 for details regarding WebExchanger functionality and the gas market timeline).

Cancelling Data Entry

As the Web Exchanger is an online application, its behaviour is some respects in defined by generic web based constraints.

To cancel out of any data entry process, you can simply click out of the data entry screen (e.g. you could hit the Home Tab), and the data entry screen will close and the un-submitted data will be discarded.

Note

NOTE: If you do happen to complete all steps in a data submission (bids, forecast, etc),you will still have the option to cancel the entry during the final confirmation step.

.

Advanced Functionality

Messaging

The WebExchanger will automatically generate email messaging to market participants involved in agency nominations and confirmations.

- Agency Nomination submission will generate an email message to the *'Injecting Participant'* and the *'Recipient'* involved, to advise that the nomination has been received by AEMO. The nomination MUST be confirmed by the *'Recipient'* before it will take effect.
- Agency Confirmation will generate an email message to the *'Injecting Participant'* and the *'Recipient'* involved, to advise that the nomination has been accepted and confirmed by the 'Recipient". The nomination will now take effect as specified.

Note

NOTE: AEMO is not required to 'follow up' subsequent to the initial email notification to all parties.

It is incumbent on all parties involved to fulfil their obligations in regard to an Agency Nomination.

AEMO recommends that Market Participants provide appropriate distribution list details to AEMO to ensure that all email is distributed according to the participants needs.

Any issues or questions regarding distribution lists should be directed to existing AEMO help desk procedures via gas.helpdesk@aemo.com.au or (03) 8664 6500.

File Upload

The WebExchanger has a File Upload capability which enables Market Participants to enter bidding, demand forecast and injection hedge data, by uploading a .CSV file (comma-separated values) prepared using third-party tools. The File Upload function is a simple semi-automated facility for use in the data entry process that is time-proven and familiar to all Market Participants.

Note

NOTE: The Upload capability is for populating the screen only (e.g. bid price and quantity steps, dates, etc).

All functions must be manually submitted, irrespective of how the data is input.

The upload function does not perform the bid submission.

In general, the process is common to all file upload interfaces and includes the following steps:

- A Market Participant prepares a data file utilising any available third-party tools, for example Microsoft® Excel™, or any text editor.
- Each file can only contain only one of the following options:
  - A single bid, or
  - A single non-site specific demand forecast or a single site specific demand forecast, or
  - A single injection hedge nomination, or
  - A single agency injection hedge nomination that may contain up to 10 participants.

All details regarding file formats and the upload functionality are described in the *GMP Participant Build Pack* (issued by AEMO).

Excel© File Compatibility

It is important to be aware of a known issue with .CSV files that have been 'saved' in MS Excel©.

When you save a file in Excel, it is most likely that the date formatting will change and the file will be corrupted (i.e. no longer suitable to be used with the WebExchanger).

WebExchanger accepts files with the date format '*DD MMM YYYY*' only.

Excel will change date formatting to *DD-MM-YY* (by default) when you execute a save. This includes files created in other applications, and opened and saved in Excel. If you open such a file (in Excel) without saving, it will not be corrupted as described here.

For all respective file formatting rules and specifications, refer to your *GMP – Participant Build Pack.*

Historical Data

All participant submissions via the WebExchanger are registered and stored in AEMO internal systems for up to 18 months.

For in-house tracking purposes, AEMO is able to run a search on all existing submissions (injection and withdrawal bids, demand forecast data and hedge nominations) within that period. This includes 'multiple attempts' for within a specific interval.

Note

For market participant purposes, the **Retrieve Historical** function will allow access to the **last approved entry** for each interval of each day with a specified date range. This applies to historical bid, forecast or nomination data.

If a market participant submits 3 sets of data for the 6:00 am BoD scheduling interval on a given gas day, AEMO will record all three entries, however the participant will only be able to view (historically) the **last approved** of those entries.

If the participant submits one entry for the 6:00 am BoD scheduling interval on a given gas day, and then submits revised bids for the 2:00 pm scheduling interval for the same day, those entries will both appear in the historical bids list if a search is done for that day at anytime in the future.

> *Example: Where there is a situation where the participant has submitted 6:00 am BoD data, and then submitted revised data for the 2:00 pm scheduling interval, there would be an entry for each in the Historic Bids for that day.*
>
> Figure 7 *shows the results of a search, capturing all data entered within the specified range. This includes incudes all (last approved) entries that fall within the range either in part or in full.*

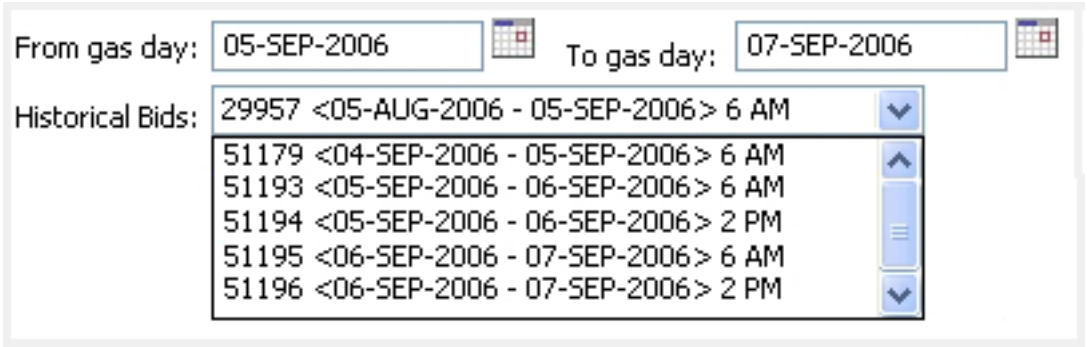


Figure 7: Example Historical List

This function allows you to select an existing bid from a previous day, modify (if necessary) and save it as a new bid for the current day, day(s) ahead or a new standing bid. You can specify a date range (from – to date) to search for all existing bids for the selected bid type and meter.

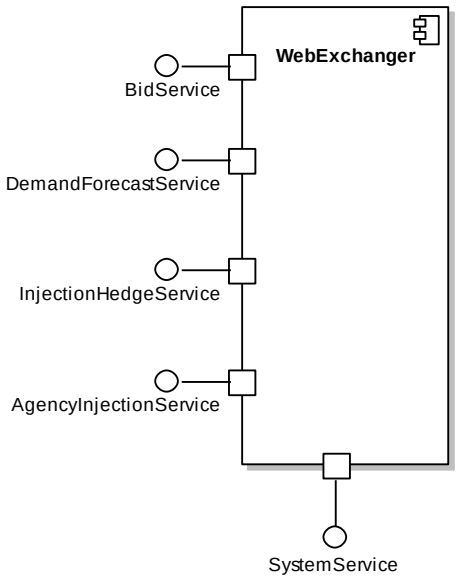
The search criterion includes:

Data Type	Search Parameters
Bids	• Bid Type. • Meter (Withdrawal or Injection point). • Date Range (From Gas Day > To Gas Day).
Demand Forecast	• Forecast Type. • Date Range (From Gas Day > To Gas Day).
Hedge Nomination	• Nomination Type. • Date Range (From Gas Day > To Gas Day).

Web Services

The WebExchanger Web Services are split up into a number of discrete services relating to particular areas of functionality:

- Bid service.
- Demand forecast service.
- Injection hedge nomination service.
- Agency injection hedge nomination service.



Note

NOTE: For information relating to Web Services consult the ***GMP Participant Build Pack.***

The functionality provided through these services is documented in the Build Pack, including detailed information relating to their input/output parameters, SOAP faults that can be thrown from the methods and other information.

(See also: *Appendix A*).

MIBB Reports

Some WebExchanger processes will trigger the reporting function, producing specified reports via the MIBB.

MIBB reports allow market participants to verify that submitted bidding data (bids, demand forecast and injection hedges) have been received and processed by AEMO.

MIBB Report	Details
INT103a	**Bid Confirmation**: This is a market participant specific report, produced after a withdrawal and/or injection bid is accepted by the market system.
INT103b	**Injection Hedge Confirmation:** This is a market participant specific report, produced after an injection hedge nomination has been accepted by the market system. The following values used to lodge an injection hedge nomination are reported: AMIQ profile and the Authorised MDQ and AMDQ Credits

INT103c	**Demand Forecast Confirmation:** This is a market participant specific report, produced after a participant demand forecast has been accepted by the market system.
INT131	**Bids at Schedule Bid Cutoff Times for Previous 2 Days - not including current day:** Bid_Id can be used to differentiate between intra day bids as there will now be five sets of bids per gas day This is a public report, produced daily.

Table 2: WebExchanger MIBB reports

Market Participant specific reports will be made available to registered participants users. AEMO will provide a user id and a password to access the registered user's area of MIBB.

Market Participant Baseline Obligations

The obligations relating top market participants are defined in the Victorian Gas Industry Market and System Operations Rules (MSOR).

Note

NOTE: The following excerpt is taken from the MSOR Version 28. Although these rules were current at the time the publication of this guide, the MSOR is subject to change from time to time.

In relation to participant bids and demand forecasting, the rules state that:

3.1.2 Requirement to submit bids and demand forecasts

(a) Each Market Participant who intends to inject quantities of gas into the transmission system on a gas day must submit bids to AEMO in accordance with clauses 3.1.5 and 3.1.7.

(aa) Each Market Participant who intends to withdraw quantities of gas from the transmission system on a gas day must submit bids or demand forecasts as applicable to AEMO in accordance with clauses 3.1.3A, 3.1.5 and 3.1.7.

(b) A Market Participant may submit updated bids and demand forecasts in accordance with clauses 3.1.3A, 3.1.5 and 3.1.7.

Failure to comply may result in the market participant incurring imbalance payments, deviation payments or some other form of regulatory penalty in accordance with the MSOR.

Intervals and Horizons

The terms Scheduling Interval and Scheduling Horizon are similar but not the same, and require clarification.

Scheduling Interval: There are five defined scheduling intervals in the new gas day market.

These are 6:00am, 10:00am, 2:00pm, 6:00pm and 10:00pm. These intervals are represented on the Bidding Screen as the five possible points of data input. The interval that you use to enter the bidding data depends on the type of bid and the gas day to which the bid relates.

Generally speaking, the five intervals are used as follows:

- 6:00am can be used to enter BoD bids for the current day, day ahead bids, 2 day ahead bids and standing bids.
- All remaining scheduling intervals are used for current gas day 'revised' bid entry only.

Scheduling Horizon: The scheduling horizon refers to the period of time within which the bids actually take effect (i.e. the period of time which the bids are for).

For example, if you enter the beginning of day bids, you are bidding into the 6:00am – 6:00am scheduling horizon (i.e. the whole gas day).

Alternatively, if you are entering the 2:00pm revised bids for the current gas day, then you are effectively bidding into the scheduling horizon from 2:00pm – 6:00am (end of gas day).

Standing Entries

The WebExchanger accepts standing entires for the submission of market bids, demand forecast and hedge/agency nominations.

There are two strategies that you may employ in regard to standing entries:

- Enter standing data to be used as a back up in the event of some type of system failure.
- Enter Standings data to save time, where you wish to submit the same data for an extended period. This period could be days, weeks or even months.

AEMO encourages participants to submit standing entries for 'back up' purposes.

Standing Bids Forecasts or Nominations will be subject to market rules as follows:

- The data stands for the duration defined between the **Commencement** and **Termination Dates**.

    - **Commencement Date:** The Bid, Forecast or Nomination commences at 6:00am on this date.
    - **Termination Date:** The Bid, Forecast or Nomination is terminated on 6:00am on this date.

- Any daily bidding, forecast, or hedge nomination data entered that overlaps the dates specified in an existing standing entry will take precedence for the duration and then the standing bid will come back into effect.

Example – Market Participant A has a standing bid where:

- *Commencement Date = 1st of month.*
- *Termination Date = 1st of the following month.*

On the 15th, Market Participant A submits a bid for the current gas day (i.e. commences on the 15th at 6:00 am and ends on the 16th at 5:59 am).

The bids will function as follows:

- *Standing bid commences 6:00 am on the 1st.*
- *Current day takes effect on the 15th at 6:00 am.*
- *Standing bid recommences on 6:00 am on the 16th and continues until the end of the month (i.e. until 6:00am on the morning of the 1st of the following month) unless further current day bids are specified.*

Figure 8: Example Simple Standing Bid Function

- If a standing bid is submitted following an individual bid (within an overlapping period/ scheduling interval), then the individual bids will be deleted and replaced by the standing bids. The same is true for demand forecasting and nominations.

Market Participant Bids

Market Bids

Market Participants who intend to inject gas into, or withdraw gas from, the gas system must submit bids to AEMO in order to indicate their intention to do so. Bids are submitted via the WebExchanger application.

Bids for the current gas day are to be submitted at the beginning of each gas day, and optional revised bids may be entered at any of the four subsequent rescheduling intervals through out the gas day. Revised bids are entered at the discretion of the market participant – beginning of day bids will apply to the full gas day if no revised bids are entered subsequently.

Additionally, Day Ahead, Two Days Ahead and Standing bids may also be submitted.

Participant bids contain the following information:

- Bid Steps.
- Minimum Daily Quantities.

Further to this, some participants will enter uplift hedge nominations, which may include:

- AMDQ nominations
- AMDQ Credit nominations.
- AMIQ profile.
- Agency Nominations (and Confirmation from recipient participants).

Market Participants can make offers to inject or withdraw gas on a gas day contingent on specific pricing conditions. Each bid may contain up to 10 pricing steps.

If market conditions change during the day and a participant wishes to revise their position, they may do so.

AEMO collates all bids, produces the operating and pricing schedules and publishes the scheduling instructions to the Market Information Bulletin Board. AMDQ nominations will be validated and processed during market settlement procedures.

Injection Bids

A Market Participant must submit a separate injection bid entry in respect to each injection point at which it intends to inject gas on a gas day. All injection points to which the participant has access will be available from a drop down list on the injection bids entry screen.

Each injection bid must specify the:

- gas day to which the injection nomination applies;
- identity of the Market Participant submitting the injection nomination;
- system injection point at which the Market Participant intends to inject gas; and
- bidding steps for the relevant scheduling interval (maximum 10 steps).

Additionally, the bid may specify the minimum daily quantity. This represents the quantity of gas that the participant specifies MUST be scheduled to flow at the specified injection point, irrespective of market price.

Withdrawal Bids

A Market Participant must submit a separate withdrawal bid entry in respect of each withdrawal point from which it intends to withdraw gas on a gas day. All withdrawal points to which the participant has access will be available from a drop down list on the withdrawal bids entry screen.

Each withdrawal bid must specify the:

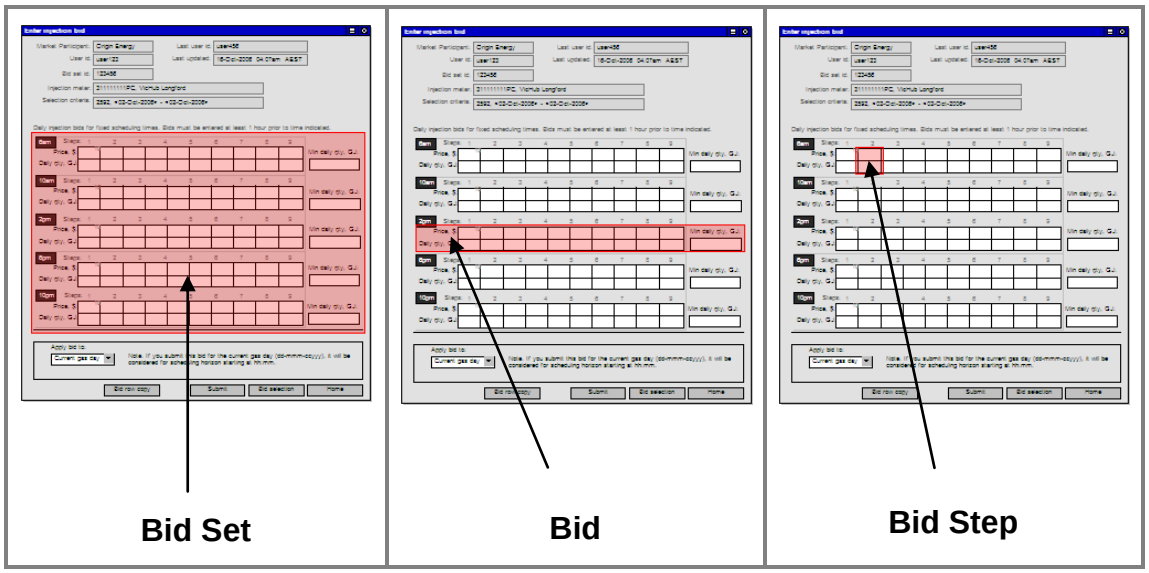
- gas day to which the withdrawal nomination applies;
- identity of the Market Participant submitting the withdrawal nomination;
- system withdrawal point from which the Market Participant proposes to withdraw gas; and
- bidding steps for the relevant scheduling interval (maximum 10 steps).

Additionally, the bid may specify the minimum daily quantity. This represents the quantity of gas that the participant specifies MUST be scheduled to flow at the specified withdrawal point, irrespective of market price.

Bid Sets/Steps

The terminology used for the description of bidding information is as follows:

- **Bid Step** – a price-quantity step in a bid;
- **Bid** – a collection of up to 10 bid steps for the specific **scheduling interval**;
- **Bid Set** – a collection of up to 5 bids for a specific **gas day**.



Each bid step must specify:

- a single price, expressed in $/GJ to four decimal places, which is to apply for the scheduling horizon, (and throughout the gas day if no other bids are entered subsequently); and
- the quantity of gas, expressed in GJ, up to which the participant is prepared to inject or withdraw at the nominated price for the bid step.

The following example (Figure 9) indicates that the market participant is prepared to inject:

- 200 GJ at a price of $3.55/GJ or,
- 250 GJ at a price of $3.80/GJ, or
- 300 GJ up to a price of $4.00/GJ.

6 AM	Steps: 1	2	3
Price $:	3.5500	3.8000	4.0000
Daily Qty GJ:	200	250	300

Figure 9: Bid Step Example

Zero-Price/Zero Quantity Bids

The WebExchanger supports a **Zero Price/Zero Quantity** bidding strategy in order to add flexibility to system. Both are explained here.

Zero Quantity

You can enter a zero quantity bid in order to overwrite (i.e. cancel) a previous bid, however, there are conditions.

The MCE will always take the most recently submitted bids when it runs the scheduling processes, so a zero quantity bid can be used in a number of ways:

- To temporarily cancel a standing bid;
- To overwrite a previously entered bid;
- As a revised bid. (Note that this can be done *only if no gas has been scheduled to flow with respect to the previous bid*).

The three scenarios are described here:

Scenario 1: Temporary Cancel of Standing Bid

You may have a standing bid to inject 300GJ per day, but wish to cancel the offer for a single day within the period to which the standing bid relates.

- Enter a Zero Quantity current gas day bid at the beginning of the gas day in question, and the standing bid will (in effect) be cancelled for that day.
- The standing bid will recommence on the following gas day, as per usual.

Scenario 2: Overwrite a Previously Entered Bid

You may have entered a bid to inject 300GJ as a current day gas bid at the beginning of the day (i.e. prior to the 5:00am bid cut off time), and then decide that you wish to cancel that offer effective immediately.

- Enter a new bid (this time a Zero Quantity current gas day bid for the 6:00am scheduling interval), and the original bid will be overwritten.
- NOTE that this scenario is dependant upon the zero bid having been submitted **BEFORE** the 5:00 am bid cut-off time.
- If you miss the bid cut-off time (for the Zero Bid), the original offer of 300GJ will stand.

Scenario 3: Enter Revised Bid

If you miss the bid cut-off time (as described in Scenario 2) there is a chance that you may have the opportunity to 'cancel' the bid by entering a Zero Quantity bid at the next available (10:00 am) scheduling interval.

However, this depends entirely on what happens when AEMO run the 6:00am schedule.

- If AEMO schedules your beginning of day offer of 300GJ to be injected, then you must comply with this. Any revised bids for the gas day must be *at least* to the extent of the 300GJ originally offered.
- If AEMO does not schedule your offer of 300GJ to be injected, you may submit at zero bid at the 10:00am scheduling interval in order to 'cancel' the original offer.

Naturally, if you wish to take this plan of action, you must confirm through your scheduling information whether the originally offered quantity (or any part of it) was scheduled to flow before you submit the zero bid.

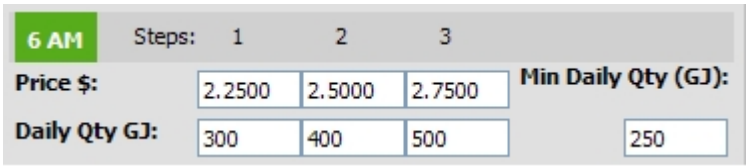
If the gas was scheduled, then a revised zero bid will be rejected.

Zero Price

You may enter a zero price as the first pricing step of an injection bid or the final pricing step of a withdrawal bid.

Note that any quantity specified as a minimum daily quantity will take precedence over a zero price step (i.e. the minimum daily quantity will ALWAYS be given priority in scheduling calculations).

Example: Under normal market conditions, in response to the following Bids:



- The participant will be scheduled to inject at least 250GJ (Nominated Min Daily Quantity).
- The participant may be scheduled to inject gas to a maximum of 500 GJ depending on market price.

Minimum Daily Quantity

Each injection or withdrawal bid may contain a specified Minimum Daily Quantity. This specifies the quantity of gas that the participant requests to flow irrespective of market price.

Each participant submits their minimum daily quantity with the understanding that the gas will be scheduled to flow unless there is an unforeseen constraint on, or interruption to supply.

AEMO will always schedule the minimum daily quantities specified by market participants before considering any other gas in order to meet demand.

Note

NOTE: The only conditions under which a minimum daily quantity would not be able to be met would be under special circumstances (e.g. system operational constraints, system failure).

Future Day Bids (Day Ahead, 2 Days Ahead)

When entering bids for **Day Ahead** or **2 Days Ahead** it is necessary to enter a single row of bids steps only – into the 6:00 am scheduling horizon.

The system will consider this data as the effective bids for the whole day.

Data for revised scheduling horizons (10:00 am, 2:00 pm, 6:00 pm and 10:00 pm) do not become relevant until the gas day has actually commenced.

Standing Bids

A standing bid may be entered at any time. This is an optional task and is done entirely at the discretion of the participant.

A standing bid will remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered overlapping that date range. When the overlapping bid expires, the standing bid comes back into effect.

If another standing bid is submitted that overlaps an existing standing forecast, the previous will be 'absorbed' by the newer bid (i.e. overwritten).

Note

NOTE: If you wish the standing bid to commence on the current gas day, the submission must be made prior to 5:00 am (beginning of day cut-off time).

Market Timeline

At the commencement of the new gas market the new market scheduling timeline will come into effect. The scheduling times, types and horizons are outlined in the following table.

Note

IMPORTANT: Participants are advised that AEMO systems operate on eastern standard time (EST) and will not be altered during daylight savings time periods.

Gas Day Scheduling Times/Horizons:

Schedule Publish/Run Time	Schedule Types	Scheduling Horizon
6:00 am	PS/OS for Current Gas Day (D) Beginning of Day (BoD)	Current Day: 6:00 am – 6:00 am 24 hour horizon
8:00 am	PS/OS for Gas Day Ahead (D+1)	Day Ahead: 6:00 am – 6:00 am 24 hour horizon
10:00 am	Revised PS/OS for Current Gas Day (D)	Current Day: 10:00 am – 6:00am 20 hour horizon
12:00 am	PS/OS for 2 Gas Days Ahead (D+2)	Two Days Ahead: 6:00 am – 6:00 am 24 hour horizon
2:00 pm	Revised PS/OS for Current Gas Day (D)	Current Day: 2:00 pm – 6:00 am 16 hour horizon
4:00 pm	Revised PS/OS for Gas Day Ahead (D+1)	Day Ahead: 6:00 am – 6:00 am 24 hour horizon
6:00 pm	Revised PS/OS for Current Gas Day (D)	Current Day: 6:00 pm – 6:00 am 12 hour horizon
10:00 pm	Revised PS/OS for Current Gas Day (D)	Current Day:10:00 pm – 6:00 am 8 hour horizon
12:00 pm	Revised PS/OS for Gas Day Ahead (D+1)	Day Ahead: 6:00 am – 6:00 am 24 hour horizon

Table 3: Gas Market Timeline

Each Day at 6:00 am, the beginning of day pricing and operating schedules are published by AEMO for the current gas day. These schedules cover the scheduling horizon from 6:00 am to 6:00 am for the current gas day.

At 8:00 am, the 'day ahead' (Day +1) Pricing and Operating Schedules are run. These schedules cover the scheduling horizon from 6:00 am to 6:00 am for the day specified.

*At 10:00 am, the first revised Pricing and Operating Schedules are published for the current gas day, covering the scheduling horizon from 10:00 am to 6:00 am (i.e. the remaining hours of the current gas day). The revised data **replaces** the beginning of day schedule data going forward and becomes, in effect, the latest approved schedule.*

*Details from the BoD schedules are **stored** in the database for settlements and tracking purposes and the new scheduled operating and pricing instructions take effect in the market.*

The process continues through out the day. As schedules are revised, market instructions are updated.

Although AEMO will run revised schedules at each of the rescheduling horizons, it is not mandatory for market participants to provide revised data for each run. It is an option provided for those participants who wish to provide revised data.

Bid Cut Off Times

The 'cut off' time for each round of bids is set at one hour before the time that the schedules are published (with the exception of the 'revised day ahead' 12:00 pm schedule, for which the bid cut off time is 10:00 pm).

Bids may NOT be submitted after the cut off time using the WebExchanger – the application will simply default for input into the next available scheduling interval.

The various times, scheduling intervals and bid cut off deadlines are as follows:

Bid Cut Off Time	Corresponding Schedule/Run Time	Participant Requirements
5:00 am	6:00 am PS/OS for Beginning of Gas Day (BoD)	Beginning of Day Bids, Demand Forecast and Uplift Hedge for Gas Day D (Current Gas Day).
7:00 am	8:00 am PS/OS for Gas Day Ahead (D+1)	MP Bids and Demand Forecast for Day Ahead.
9:00 am	10:00 am PS/OS for Current Gas Day (D)	Revised MP Bids and Demand Forecast for Gas Day D.
11:00 am	12:00 pm PS/OS for 2 Gas Days Ahead (D+2)	MP Bids and Demand Forecast for 2 Days Ahead.

1:00 pm	2:00 pm PS/OS for Current Gas Day (D)	Revised MP Bids and Demand Forecast for Gas Day D.
3:00 pm	4:00 pm Revised PS/OS for Gas Day Ahead (D+1)	Revised MP Bids and Demand Forecast for Day Ahead.
5:00 pm	6:00 pm PS/OS for Current Gas Day (D)	Revised MP Bids and Demand Forecast for Gas Day D.
9:00 pm	10:00 pm PS/OS for Current Gas Day (D)	Revised MP Bids and Demand Forecast for Gas Day D.
10:00 pm	12:00 am Revised PS/OS for Gas Day Ahead (D+1)	Revised MP Bids and Demand Forecast for Day Ahead.

Table 4: Bid Cut Off Times

Bid Start Times

Similarly, each scheduling horizon has a **Bid Start Time** – the time before which bids may not be entered for the horizon. What this means is that for each scheduling horizon for the current gas day (and day ahead, 2 days ahead) bids, there is a time frame within which bids can be entered. Any attempt to enter bids outside of the indicated time frames will fail.

Current Gas Day Bid Entry Time frames:

Schedule Publish/Run Time	**Bid Start – Cut Off Times (Data Entry Window)**
6:00 am PS/OS for Gas Day D	10:01 pm (previous day) – 5:00 am (current day)
10:00 am PS/OS for Gas Day D	5:01 am – 9:00 am
2:00 pm PS/OS for Gas Day D	9:01 am – 1:00 pm
6:00 pm PS/OS for Gas Day D	1:01 pm – 5:00 pm
10:00 pm PS/OS for Gas Day D	5:01 pm – 9:00 pm

Table 5: Current Gas Day Bids

Day Ahead Bid Entry Time frames:

Schedule Publish/Run Time	**Bid Start – Cut Off Times (Data Entry Window)**
8:00 am PS/OS for Day Ahead (D+1)	10:01 pm (previous day) – 7:00 am (current day)
4:00 pm Revised PS/OS for Day Ahead (D+1)	7:01 am – 3:00 pm
12:00 am Revised PS/OS for Day Ahead (D+1)	3:01 pm – 10:00 pm

Table 6: Day Ahead Bids

2 Days Ahead Bid Entry Time frame:

Schedule Run Time	**Bid Start – Cut Off Times (Data Entry Window)**
12:00 pm PS/OS for 2 Days Ahead (D+2).	10:01 pm (previous day) – 11:00 am (current day)

Table 7: 2 Day Ahead Bids

Date Selection

Given that the gas day is defined as the period from 6:00 am until 6:00 am on the following day, care must be taken when selecting date ranges in WebExchanger.

For example, if you wish to retrieve all bids for the month of January, you must select the date range as follows:

- **From Gas Day:** 1 January
- **To Gas Day:** 1 February

The reason for this is that if you set the **To Gas Day** date as the 31st of January, the search will not pick up to bids for the 31st, as the actual gas day ends at 6:00 am on the morning of the 1st of February, and would fall outside of the search range.

Similarly, if you wish to submit a standing bid that would remain in effect for the month of January, you must select the date range as follows:

- **Commencement Date:** 1 January
- **Termination Date:** 1 February

Entering Bids Information

The WebExchanger allows you to create bids and maintain the information in a number of ways.

The bids entry functions are as follows:

- Create bid: Create a new bid from scratch.
- Select/modify current gas day bid: Make changes to an existing bid for the current gas day, save those changes and submit the updated data (as a new bid).
- Search/select/modify historical bid: Search for an existing bid, modify as necessary and submit the data as a new bid.
- Create/modify day ahead, 2 days ahead and standing bids.
- Upload bid data. WebExchanger supports data file uploading for bids, demand forecasting and hedge nominations.

Note

NOTE: For Current Gas Day bids, only data for the active (next) scheduling interval may be entered. Data entry fields for other intervals will not be available for editing.

Bids Step Entry Rules

The following rules apply to Bid Step data entry:

Price $	Price Entry criteria: • Enter price in $/GJ • To four decimal places. (Note that the system will 'auto complete' all entries under four decimal places). • Must be greater than (or equal to) zero and less than VoLL.
Daily Qty GJ	Daily Qty must be: • In GJ (no decimal places). • A positive value (maybe zero if the first or only bid step). • Not inconsistent with any prevailing SPDCs.

Minimum Daily Qty	Minimum Daily Qty must be: • In GJ (no decimal places). • A positive value. • In the case of an injection bid, not greater than the Daily Quantity associated with the highest priced Bid Step. • In the case of a withdrawal bid, not greater than the Daily Quantity associated with the lowest priced Bid Step.
Available Data Fields	Depending upon the time of day, Bid Type and the Apply Bid To Gas Day selected the system will enable and disable the relevant fields for data entry. Disabled fields will be greyed out.

The MSO Rules also stipulate that price and quantity value entries must follow these guidelines:

For an injection bid:

- The Price in a Bid Step that is higher than the Price in another Bid Step must have an associated Daily Quantity that is equal to, or higher than the Daily Quantity associated with the lower Bid Step (see MSOR clause 3.1.5 (d)).
- For the current gas day, the Daily Quantity associated with the highest Bid Step must be equal to, or must exceed the quantity of gas previously scheduled for that gas day.

For a withdrawal bid:

- The Price in a Bid Step that is higher than the Price in another Bid Step must have an associated Daily Quantity that is equal to, or lower than the Daily Quantity associated with the lower Bid Step (see MSOR clause 3.1.5 (e))
- For the current gas day, the Daily Quantity of gas of a bid associated with the lowest Bid Step must be equal to, or must exceed the quantity of gas previously scheduled for that gas day.

What this means is that for an **Injection** bid, the **Price** and **Quantity** must both begin at the lowest amount, and increase with each step.

Injection Bids

Price	Increases	↗
Quantity	Increases	↗

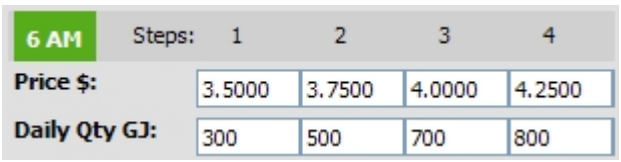


Figure 10: Valid Injection Bid Step entry

For a **Withdrawal** bid, the **Price** must start at the highest amount and decrease with each step, and the **Quantity** must start at the lowest and increase with each step.

Withdrawal Bids

Price	Decreases	↘
Quantity	Increases	↗

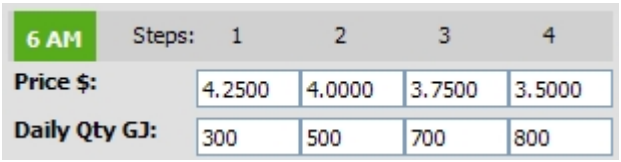


Figure 11: Valid Withdrawal Bid Step entry

The following details will be displayed automatically by the system as applicable (note that these values are provided for user reference and data tracking purposes):

Bid Set ID

A unique identifier for the overall Bid Set. The Bid Set is defined as the collection of all bids for the gas day (e.g. if the participant enters beginning of day bids, and subsequently enters revised bids for the 10:00 am and 2:00 pm scheduling intervals, the Bid Set will contain all three entries).

The Bid Set Id is generated when the first set of bids for the gas day is successfully submitted.

Note that each bid entered will have a unique Bid Id (see Bid Id below).

Injection/Withdrawal Meter

As specified on **Bid Selection** screen.

Last User ID

Will be displayed if applicable.

Last Updated

Will be displayed if applicable.

From Gas Day

As specified on **Bid Selection** screen, or as selected in the **Apply Bid To** field.

To Gas Day

As specified on **Bid Selection** screen, or as selected in the **Apply Bid To** field.

Bid ID

Each individual bidding entry (for a scheduling horizon) receives it's own Bid Id.

The Bid ID appears in red just above the Minimum Daily Quantity entry for the bid.

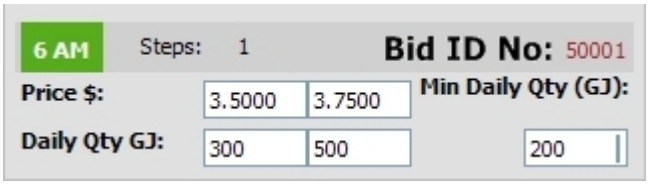


Figure 12: Bid Id Number

NOTE: When searching for existing bids, the Bid ID is displayed by WebExchanger, NOT the Bid Set ID.

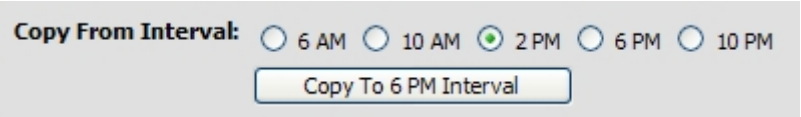
The pictured example shows the Bid Id, the Date and the Schedule run time.

When you enter injection or withdrawal bids, the data must be entered for a single scheduling interval as indicated below:

Bid Entry	Available Scheduling Horizon
Current Gas Day BoD Bids	6:00 am only
Revised Current Gas Day Bids	Next scheduling interval. (e.g. at 12:00 pm the user may enter current gas day bids for the 2:00 pm scheduling interval only).
Day Ahead	6:00 am interval only. The bids remain in effect for the whole day.
2 Days Ahead	6:00 am interval only. The bids remain in effect for the whole day.
Standing bids	6:00 am interval only. The bids remain in effect for the whole day.

Bid Row Copy

The Copy Bid Row function simply allows you to copy the data from any bid row on the screen to the currently active scheduling interval.

Task/Function	Steps/Details
Copy Bid Row (Generic)	To access the Bid Row Copy function: 1. Click on the **Show Bid Row Copy** button. The **Copy From Interval** function appears.
	
	2. Select the Interval from which to Copy data. 3. Click on the **Copy To (Time) Interval** button. Where (Time) = the next interval to be scheduled. 4. The screen refreshes with the copied data in place.

Create Bids

The WebExchanger Bid functionality enables you to:

- create new bids;
- add to/or modify the bidding information for the current gas day (as time progresses and updates and revised scheduling occurs);
- search for any existing 'historical' bids; or
- upload bid data via .CSV file (formatting rules apply – see note).

Note

NOTE: For details on bid data upload file format, refer to your GMP – Participant Build Pack.

The ***Bid Selection*** screen provides a simple interface for the process:

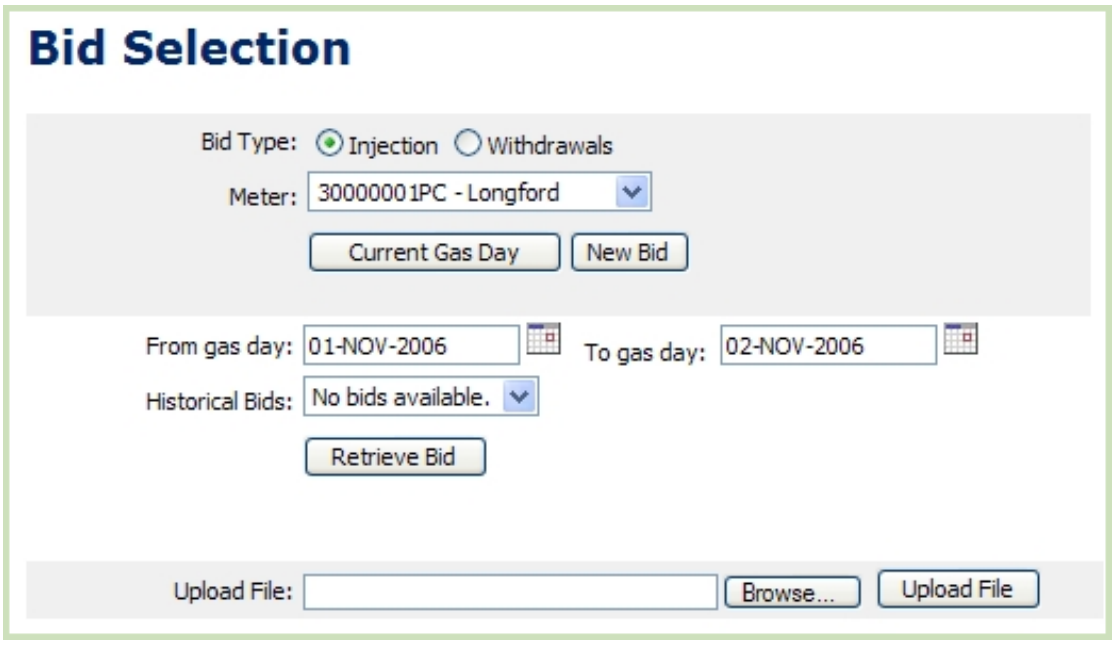


Figure 13: Bid Selection Screen

Once the parameters have been selected the WebExchanger will provide the required ***Bid Set*** screen for you to complete the bidding process.

Bidding must be entered using one of several options:

- direct entry.

- copy from one row to another.
- upload file.
- save existing bid as new (modified if necessary).

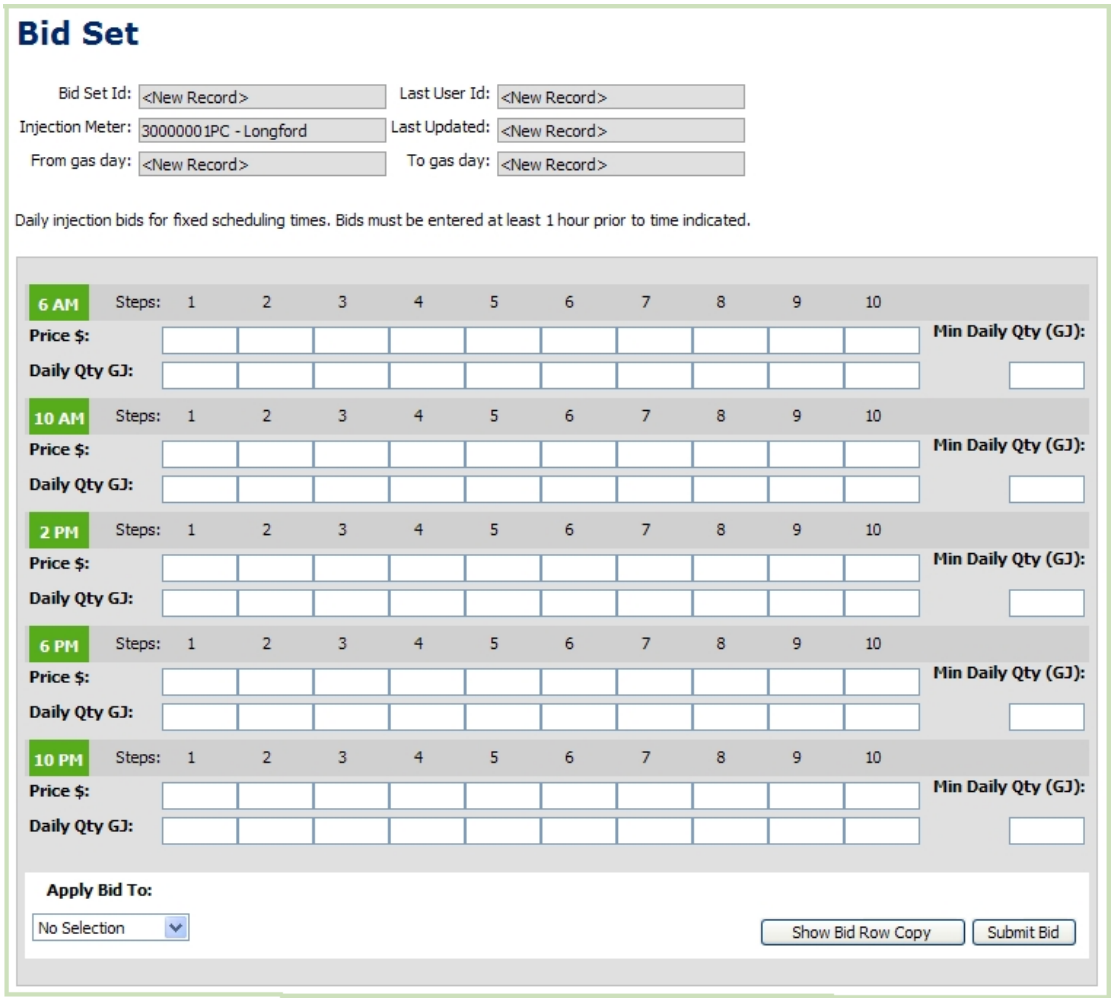


Figure 14: Bid Set Screen

Note

NOTE: The applicable fields will be enabled/disabled for data entry once you have selected the **Apply Bid To** function, which defines whether the bid is current gas day, day ahead, standing and so on.

Create New Bid

This function is used to create a new bid entry for one of the following:

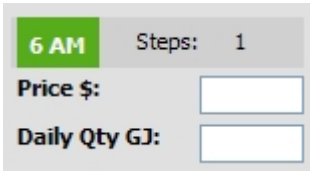
- Beginning of day bids for the current gas day.
- Day ahead bids.

- 2 day ahead bids.
- Standing bids.

Note

NOTE: When a market participant selects to create a new bid, the **Meter** drop down list will be automatically populated with the registered injection points or withdrawal points for the participant – depending on whether create **injection** or **withdrawal** bid is selected.

Task/Function	Steps/Details
Create a New Bid	1. Click on the **Bids** tab. The Bid Selection screen appears. 2. Select the **Bid Type** (i.e. Injection or Withdrawal). 3. Select the **Meter** from the drop down list. 4. Select **New Bid**. The Bid Set screen opens. 5. Go to the **Apply Bid To** drop down list and select the Day to which the New Bid relates: **Current Gas Day** – Select this option to enter the Beginning of Day Bids for the **Current Gas Day**. **Day Ahead** – Select this option to enter the initial **Day Ahead** Bids **Two Days Ahead** – Select this option to enter the initial The **Two Days Ahead** Bids. **Standing Bid** – Select this option to enter a new **Standing Bid**. The screen will display the date range fields to enable the user to select the period for which the bids are to stand. The Bid Set screen refreshes to accept data as per appears (as selected in Step 5).

Task/Function	Steps/Details
Enter Bid Steps	1. Enter the Price and Quantity in the cells for Bid Step 1 for the current schedule horizon.  2. Enter subsequent Bids Steps as required (up to 10 steps allowed). Bids steps must be entered consecutively, with no gaps between steps. 3. Enter the **Minimum Daily Quantity.** When all entries are correct and complete: 4. Click the **Submit Bid** button. The **Bidding Information and Confirmation** screen appears. (See: Figure 15)

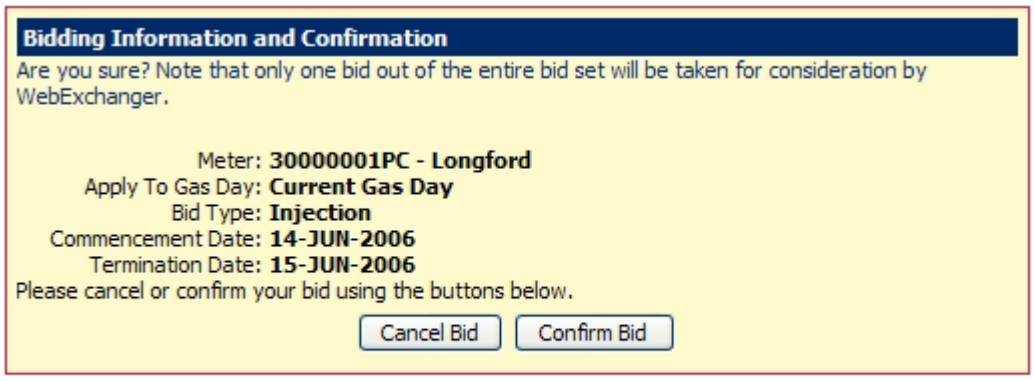

Bidding Information and Confirmation
Are you sure? Note that only one bid out of the entire bid set will be taken for consideration by WebExchanger.
Meter: 30000001PC - Longford
Apply To Gas Day: Current Gas Day
Bid Type: Injection
Commencement Date: 14-JUN-2006
Termination Date: 15-JUN-2006
Please cancel or confirm your bid using the buttons below.
Cancel Bid
Confirm Bid
Daily injection bids for fixed scheduling times. Bids must be entered at least 1 hour prior to time indicated.

Figure 15: Bid Information and Confirmation Screen

Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Standard Gas Day Revised Bids

In addition to the 'beginning of day gas' bids for the current gas day, there are four revised schedule intervals, each of which may be used to enter revised bid sets.

Note

NOTE: It is not mandatory to enter revised bidding information. If you enter beginning of day bids, they stay in effect until any revised bids are submitted.

If none are received, the BoD bids will stay in effect for the whole gas day.

Revised bidding options include:

- **Revised Current Gas Day** bids for the 10:00 am, 2:00 pm, 6:00 pm and 10:00 pm scheduling intervals.
- **Revised Day Ahead** bids for the 4:00 pm and Midnight scheduling intervals.

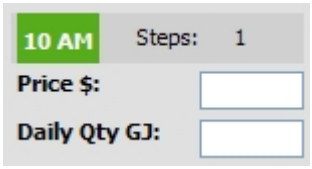
  NOTE that Bid Cut Off times apply at all times.

The procedure for entering revised bids is almost the same as creating a new bid.

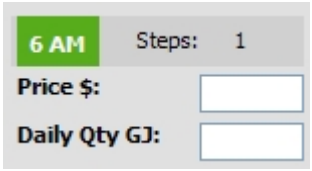
Depending on the time of day, the data entry row for the active scheduling interval becomes available, but all other rows are disabled. Data entered previously will be displayed for reference purposes, or can be copied into the current interval if necessary. Copied data can be modified before submitting.

Create Revised Bids for Current Gas Day:

Task/Function	Steps/Details
Create Revised Bids for Current Gas Day	1. Click on the **Bids** tab. 2. Select the **Bid Type** (i.e. Injection or Withdrawal). 3. Select the **Meter** from the drop down list to which this Bid relates. 4. Select **Current Gas Day:** **Current Gas Day** — Opens the Bid Set screen to enter reschedule bids for the **Current Gas Day** (i.e. for the next scheduling horizon). Existing data created for the selected Meter and Bid Type for the current day will be shown for reference purposes only.

Task/Function	Steps/Details
Enter Bid Steps	1. Enter the Price and Quantity in the cells for Bid Step 1 for the current schedule horizon.  2. Enter subsequent Bids Steps as required (up to 10 steps allowed). Note that bids steps must be entered sequentially (i.e. Step 1, 2, 3, etc. There must not be any gaps between bids steps). 3. Enter the **Minimum Daily Quantity.** When all entries are correct and complete: 4. Click the **Submit Bid** button. The **Bidding Information and Confirmation** screen appears. (See: Figure 15 on page 35)
Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Create Revised Day Ahead (Day + 1) Bids:

Task/Function	Steps/Details
Create Revised Day Ahead Bids	1. Click on the **Bids** tab. 2. Select the **Bid Type** (i.e. Injection or Withdrawal). 3. Select the **Meter** from the drop down list. 4. Select **New Bid.** 5. Select **Day Ahead** from the **Apply Bid To** drop down list. The screen opens with the existing day ahead data. Modify the existing data or submit as is.
Modify Bid Steps	1. Enter Revised Price and Quantity values in the cells for Bid Step 1 as required. (Day ahead bids use 6:00 am scheduling horizon only).  2. Enter subsequent Bids Steps as required (up to 10 steps allowed). Note that bids steps must be entered sequentially (i.e. Step 1, 2, 3, etc. There must not be any gaps between bids steps). 3. Enter the **Minimum Daily Quantity.** When all entries are correct and complete: 4. Click the **Submit Bid** button. The **Bidding Information and Confirmation** screen appears. (See: Figure 15 on page 35)
Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Retrieve Historical Bid

Task/Function	Steps/Details
Retrieve Historical Bid	1. Click on the **Bids** tab. 2. Select the Bid Type (i.e. Injection or Withdrawal). 3. Select the **Meter** from the drop down list to which this Bid relates. 4. Select the **From Date**. 5. Select the **To Date**. The screen refreshes and all available bids for the specified range are listed in the **Historical Bids** drop down list. 6. Select the required bid from the list. 7. Click on **Retrieve Bid**. 8. The Bid Set screen opens with all details for the selected bid.

Modify and Submit as New Bid:

Task/Function	Steps/Details
Modify Bid Steps	NOTE: It is optional to the user whether to modify any displayed data or submit as is. 1. Go to the **Apply Bid To** list and select the day for which the bid is to apply. The screen refreshes accordingly, allowing data entry only into the appropriate scheduling horizon. 2. Modify **Bids Steps** as required. 3. Modify **Minimum Daily Quantity** data as required. When all entries are correct and complete: 4. Click the **Submit Bid** button. The **Bidding Information and Confirmation** screen appears.
Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases, this will require the

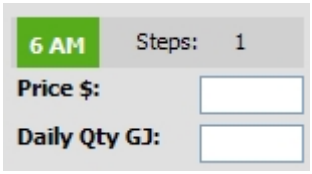
Task/Function	Steps/Details
	user to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Create Standing Bid

Standing bids can be submitted at any time as required. The one restriction is that the commencement date must be at least one day ahead of the time of data entry.

Standing bids remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other bids entries that are subsequently entered overlapping that date range. When the overlapping bid expires, the standing bid comes back into effect.

Task/Function	Steps/Details
Create Standing Bid	1. Click on the **Bids** tab. The Bid Selection screen appears. 2. Select the **Bid Type** (i.e. Injection or Withdrawal). 3. Select the **Meter** from the drop down list to which this Bid relates. 4. Select **New Bid**: The Bid Set screen appears.
Specify Standing Bid Period	Select **Standing Bid** from **the Apply Bid To** drop down list. The screen refreshes to show the date range fields for the Bids:
	Select the **Commencement** and **Termination Dates** to specify the date range for which the bid is to stand. (See also: *Date Selection* on page 27).

Task/Function	Steps/Details
Enter Bid Steps	1. Enter the Price and Quantity in the cells for Bid Step 1 for the 6:00 am schedule horizon.  2. Enter subsequent Bids Steps as required (up to 10 steps allowed). Note that bids steps must be entered sequentially (i.e. Step 1, 2, 3, etc. There must not be any gaps between bids steps). 3. Enter the **Minimum Daily Quantity.** 4. Click on **Submit Bid**. The **Bidding Information and Confirmation** screen appears. (See: Figure 15 on page 35)
Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Upload Bid Data File

Bid data can be uploaded via a correctly formatted .CSV file.

Note

For details on file format and specifications refer to your ***GMP – Participant Build Pack***.

See sections on:

- ***Injection Bid Interface Definition,*** and
- ***Withdrawal Bid Interface Definition.***

Figure 16: The File Upload Toolbar

Upload Bid Data File:

Task/Function	Steps/Details
Upload Bid Data File	1. Click on the **Bids** Tab. 2. Click the **Browse** button on the **Upload File** Toolbar. (Figure 16). The standard **Choose File** window opens. 3. Locate and select the file to be uploaded and then click **Open**. The file name will be loaded into the address path window. 4. Click **Upload** File. 5. The Bid Set screen opens with all uploaded data. 6. Check and amend on screen details as required. 7. Click **Submit Bid**.
Confirm Bid	The final step in the process is to confirm the bid. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the bids. 2. Click the **Confirm Bid** Button. The screen refreshes with the message: **The bid was submitted successfully.**

Demand Forecast

Market Participants must notify AEMO of any expected demand for the gas day that falls under the definition of **'uncontrollable withdrawals'**. This is done by supplying a demand forecast.

Market Participants must also enter hourly demand forecast data, which represents the predicted 'uncontrollable' demand for gas that will occur within the site or zone under their jurisdiction (i.e. within their market share).

Demand Forecasts must be submitted for current gas day bids and day ahead bids.

Participants may, at their discretion, also enter standing demand forecasts.

Note

Market Participant submission of demand forecast is a requirement under the new MSO Rules.

There are two categories of demand forecast:

- **Non Site Specific:** The majority of participants will enter a non-site specific forecast which represents a total forecast of uncontrollable demand from metering point(s) to which they are assigned.

- **Specific Site:** The participants responsible for larger sites (which are specifically nominated and notified by AEMO) must enter a site specific demand forecast. Such sites are defined as those with high variable loads (e.g. gas-fired generators).

System security and access permissions will ensure that each participant is presented with the particular metering points that relate to them only, when entering demand forecast data.

Demand forecast figures (and revised forecast figures) are entered in accordance with all scheduling time lines. (See: *Table 4: Bid Cut Off Times* on page 26).

Standing Forecast

A standing demand forecast may be entered at any time. This is optional and is done at the discretion of the participant.

A standing forecast will remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered overlapping that date range. When the overlapping forecast expires, the standing forecast comes back into effect. *(See also*:

Standing Bids

A standing bid may be entered at any time. This is an optional task and is done entirely at the discretion of the participant.

A standing bid will remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered overlapping that date range. When the overlapping bid expires, the standing bid comes back into effect.

If another standing bid is submitted that overlaps an existing standing forecast, the previous will be 'absorbed' by the newer bid (i.e. overwritten). *on page 23).*

If another standing forecast is submitted that overlaps an existing standing forecast, the previous will be ‘absorbed’ by the newer forecast (i.e. overwritten).

Note

Participants may submit forecast validation values to AEMO if they wish.

Participant forecasts will be validated against these ‘limits’ per hour, per meter, where values have been supplied.

Validation values can be supplied to AEMO via the appropriate in the Market Participant Build Pack, or by contacting AEMO Helpdesk.

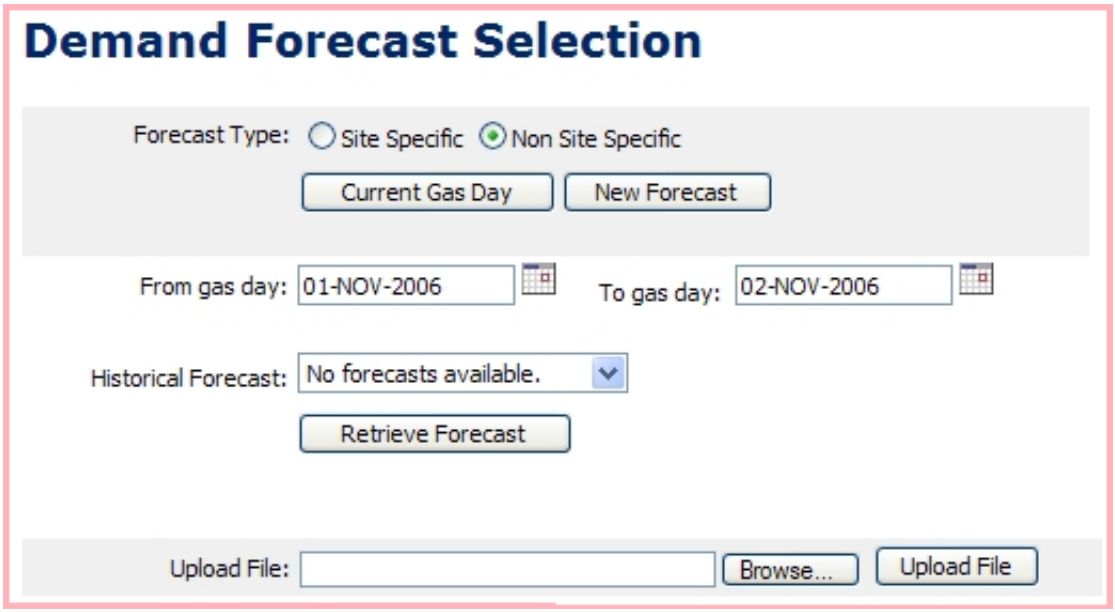


Figure 17: Demand Forecast Selection Screen

Note

If you wish the standing bid to commence on the current gas day, the submission must be made prior to 5:00 am (beginning of day cut-off time).

Entering Demand Forecast Data

Demand forecast data (for the current gas day) is entered at the beginning of the day and may be revised at each revised scheduling horizon.

Values must be entered for each hour of the day. As the day progresses, elapsed time values will become 'un-editable', however, the values for the remaining hours of the day may be modified as required, and the forecast resubmitted.

Demand Forecast Entry Rules

The following rules apply to Demand Forecast data entry:

Hourly Values	Forecast Value criteria:
	Absolute quantity to be defined in GJ.
	Whole numbers only.
	No decimal places are allowed.
	Must enter values (including zero values) for all remaining hours of the gas day.

Daily Total GJ	Can not be manually entered. Value updates automatically as hourly values are entered.

The Demand Forecast Screen Header will load demand forecast information as it becomes available:

Forecast ID	A unique identifier will be generated when the forecast data is submitted.
Meter	If the **Forecast Type** = Site Specific a meter will be selected. (MIRNs will be displayed). If the **Forecast Type** = Non Site Specific, the meter field will not be displayed.
Last User ID	Will be shown if applicable. (N/A for New Record).
Last Updated	Will be shown if applicable. (N/A for New Record).
From Gas Day	As specified on **Forecast Selection** screen, or as selected in the **Apply Demand Forecast To** field.
To Gas Day	As specified on **Forecast Selection** screen, or as selected in the **Apply Demand Forecast To** field.

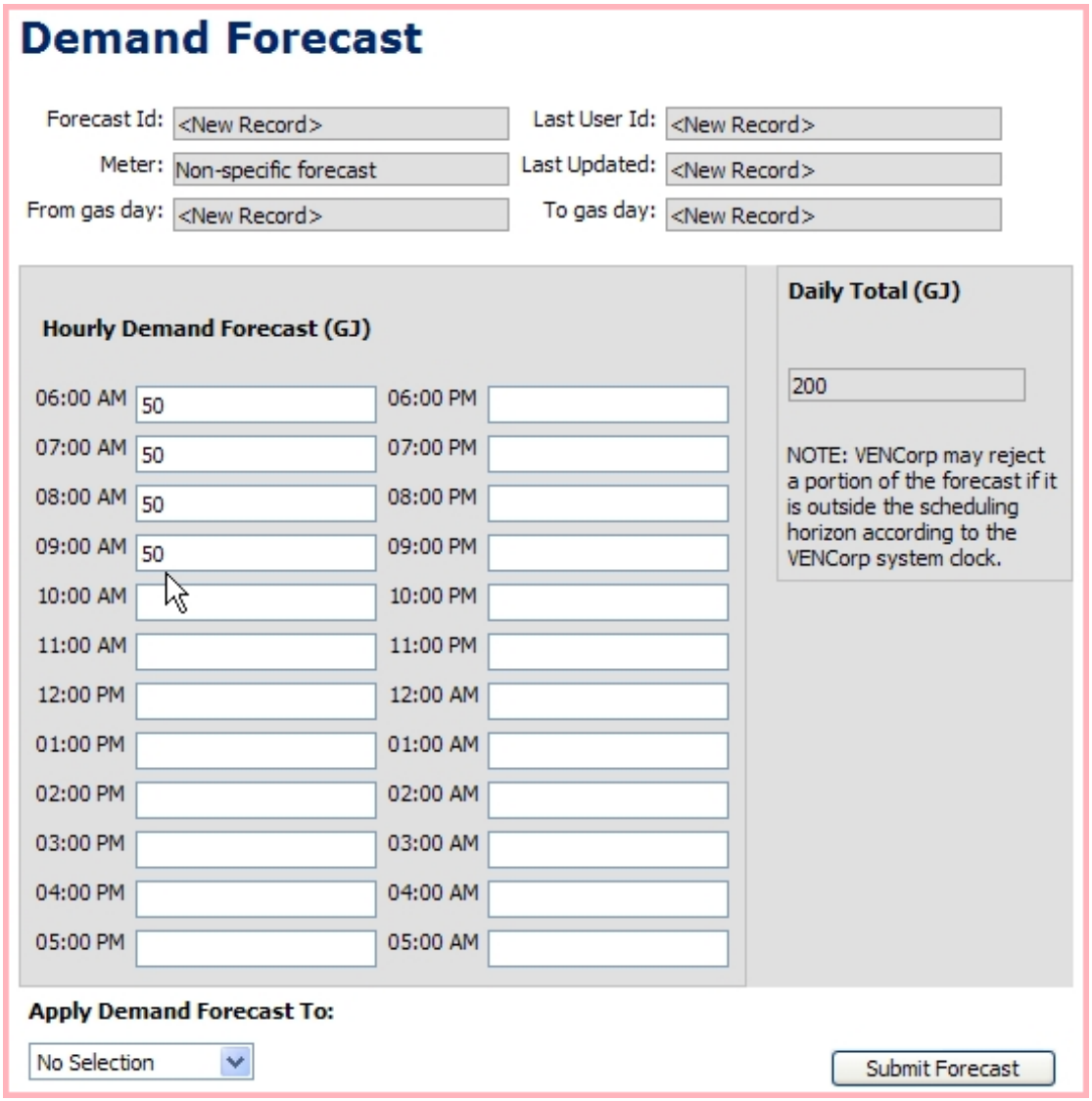
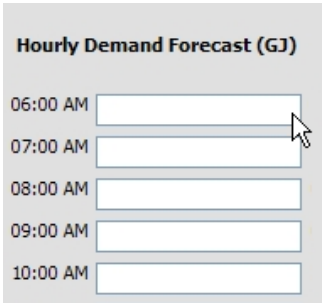


Figure 18: Enter Demand Forecast Screen

Note

Note that the procedure to create a site specific or non-site specific forecast is the same, with the exception that when creating site specific, there is the additional step to specify the meter.

Create New Demand Forecast:

Task/Function	Steps/Details
New Demand Forecast	1. Click on the **Demand Forecast** tab. The Demand Forecast Selection screen appears. 2. Select the Forecast Type (i.e. **Site Specific** or **Non-Site Specific**). 3. If **Site Specific**, select the **Meter** from the drop down list. (For Non-Site Specific, this step not required). 4. Select **New Forecast**: **New forecast** Opens the screen to create a new Demand Forecast. Initial forecast for the CGD must be submitted prior to the 5:00 am bid cut off time.
Enter Hourly Forecast Quantity	1. Select the Gas Day for which the forecast applies to from the **Apply Demand Forecast To** drop down list: • Current Gas Day • Day Ahead. • Two Days Ahead. • Standing Forecast. 2. Enter the Hourly Demand forecast Quantities (in GJ).  3. Click **Submit Forecast.**
Confirm Demand Forecast	The final step in the process is to confirm the forecast. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the demand forecast. 2. Click the **Confirm Forecast** Button. The screen refreshes with the message: **The demand forecast was submitted successfully.**

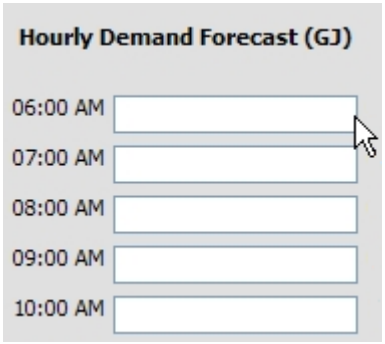
Enter Revised Current Day Demand Forecast:

Task/Function	Steps/Details
Enter Revised Demand Forecast	1. Click on the **Demand Forecast** tab. The Demand Forecast Selection screen appears. 2. Select the Forecast Type (i.e. **Site Specific** or **Non-Site Specific**). 3. If **Site Specific**, select the **Meter** from the drop down list. (For Non-Site Specific, this step not required). 4. Select **Current Gas Day**. The screen opens for the current day with all previously entered values loaded. 5. Modify values for remaining hours in the day as required (elapsed hourly values can not be changed). 6. Click **Submit Forecast.**
Confirm Demand Forecast	The final step in the process is to confirm the forecast. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the demand forecast. 2. Click the **Confirm Forecast** button. The screen refreshes with the message: **The demand forecast was submitted successfully.**

Create Standing Forecast

Standing forecast data can be submitted at any time as required. The one restriction is that the commencement date must be at least one day ahead of the time of data entry.

Standing forecasts remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered overlapping that date range. When the overlapping forecast expires, the standing data comes back into effect.

Task/Function	Steps/Details
Create Standing Forecast	1. Click on the **Demand Forecast** tab. The Demand Forecast Selection screen appears. 2. Select the **Forecast Type** (i.e. Site or Non-Site Specific). 3. Select the **Meter** from the drop down list (Site Specific only). 4. Select **New Forecast.** The Demand Forecast screen appears.
Specify Standing Forecast Period	Select **Standing Forecast** from the **Apply Demand Forecast To** drop down list. The screen refreshes to show the date range fields for the Demand Forecast:
	Select the **Commencement** and **Termination Dates** to specify the date range for which the demand forecast is to stand. (See also: *Date Selection* on page 27).
Enter Hourly Forecast Quantities	1. Enter the Hourly Demand Forecast Quantities (in GJ).  2. Click **Submit Forecast**. The Forecast Information Confirmation Screen appears.

Task/Function	Steps/Details
Confirm Demand Forecast	The final step in the process is to confirm the forecast. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re- submit the forecast. 2. Click the **Confirm Forecast** button. The screen refreshes with the message: **The demand forecast was submitted successfully.**

Upload Demand Forecast File

Demand Forecast data can be uploaded via a correctly formatted .CSV file.

Note

For details on file format and specifications refer to your ***GMP – Participant Build Pack***.

Go to the ***Demand Forecast Interface*** section and refer to the sub-sections:

- ***Site Specific Demand Forecast,*** and
- ***Non- Site Specific Demand Forecast.***

Upload Demand Forecast File:

Task/Function	Steps/Details
Upload Demand Forecast File	1. Click on the **Demand Forecast** Tab. 2. Click the **Browse** button on the File Upload Toolbar. (Figure 16). The standard **Choose File** window opens. 3. Locate and select the file to be uploaded and then click **Open**. The file name will be loaded into the address path window. 4. Click **Upload** File. 5. The Demand Forecast screen opens with all uploaded data. 6. Check that details are correct and then click **Submit Forecast**.
Confirm Demand Forecast	The final step in the process is to confirm the forecast. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the demand forecast. 2. Click the **Confirm Forecast** Button. The screen refreshes with the message: **The demand forecast was submitted successfully.**

Hedge Nominations

All participants who submit injection bids and hold the required AMDQ (or AMDQ Credits) may submit an Injection Hedge Nomination or an Agency Injection Hedge Nomination.

The hedge nomination represents the quantity of gas that the participant requests to be allocated to protect either itself or its customers (who hold AMDQ in their portfolio) against potential uplift charges. The participant understands that once a quantity of gas has been nominated as an uplift hedge, it will not be entitled to ancillary payments for the nominated quantity.

Market participants may nominate any portion of an injection bid for the day to serve as an uplift hedge.

Participants who do not hold AMDQ or AMDQ credits may not nominate any part of an injection bid as an uplift hedge. There is no requirement for such participants to even use this part of the WebExchanger.

There are three ways in which a participant can hold AMDQ:

- Longford AMDQ (original allocations).
- AMDQ Credits (AMDQ from one of the newer injection sites, i.e. Culcairn, Iona or SEA Gas).
- Agency Nomination (this applies to non AMDQ holding participants who have come to some sort of contractual arrangement with an AMDQ holding participant to use part of their AMDQ for a specified period of time). The owner of the AMDQ still retains control and ownership of it, but 'leases' a portion of it to the second participant via contract.

What is a Hedge Nomination?

Market participants have two options (bidding strategies) to consider in regard to injection bid quantities:

- the injection bid quantity (or any part of it) may be used to generate an uplift hedge.
- the injection bid quantity (or part of it) may be used in order to generate ancillary payments.

A hedge nomination defines a quantity of gas from a specific injection point to be used as an uplift hedge for the gas day. Further to the quantity specified, the participant must define an

Authorised Maximum Interval Quantity (AMIQ) distribution profile in percentage terms related to their AMDQ position for the gas day.

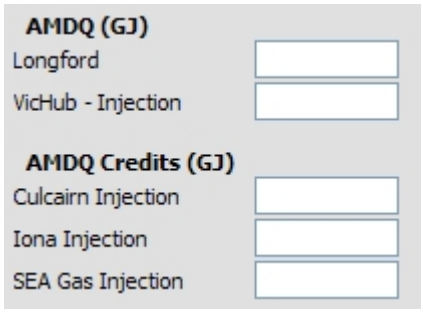


Figure 19: Sample AMDQ Data Entry Fields

The bidding participant must submit the AMDQ for the relevant injection point at the beginning of each day.

It is the responsibility of each participant to nominate quantities and injection points that reflect their holdings of AMDQ and any other existing contractual arrangements.

Any incorrect or invalid entries will be discarded at the time of market settlement.

What is the AMIQ?

The **Authorised Maximum Interval Quantity** is a breakdown, in percentage terms, of the AMDQ that has been nominated for uplift hedging for the gas day. It defines the maximum allowable quantity that may be allocated to each injection point for each scheduling interval across the day.

For example, as indicated in Figure 20, the maximum allowable amount that can be nominated for the 6:00 am scheduling interval is 25.8%.

The maximum amount for the 10:00 am interval is also 25.8%, however, if the full 25.8% is nominated for the 6:00 am interval, you may not nominate the full 25.8% for the 10:00 am interval. The reason for this is that at the next level, the rules stipulate that the maximum amount that may be scheduled for the two interval s (collectively) is 42.6%.

Hence you may nominate 25.8% for the 6:00 am interval but that would only allow an AMIQ of up to between 16.8% for the 10:00 am.

AMDQ Profile Limits						
Limits imposed	Scheduling interval beginning					
	6am	10am	2pm	6pm	10pm	2am
Maximum	100 %					
Maximum	78.4 %				42.6 %	
Maximum	42.6 %		41.8 %		42.6 %	
Maximum	25.8 %	25.8 %	25.8 %	25.8 %	42.6 %	
Minimum	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	

Figure 20: AMIQ Indicative Validation Rules

Note

If you attempt to enter AMIQ quantities that exceed these thresholds, the system will return an 'AMIQ Values Invalid' error message and the data will not be accepted.

Timeline for Nominations

Current gas Day Uplift Hedge Nominations must be submitted before 5:00 am.

Standing nominations must be entered prior to 5:00 am on the specified Commencement Date.

Once a hedge nomination has been submitted, it can be re-opened and modified as follows:

- Current day nominations can be updated before 5:00 am on the day.
- Day ahead, 2 day ahead entries can be modified at any time.
- Standing nominations can be modified at any time, and take effect as of 6:00 am on the nominated Commencement Date.

Standing Nominations

A standing hedge nomination may be entered at any time. This is an optional task and is done entirely at the discretion of the participant.

A standing nomination will remain in effect for the duration specified in the Commencement and Termination Dates, but is overridden by other entries that are subsequently entered overlapping that date range. When the overlapping nomination expires, the standing nomination comes back into effect.

See also: (Standing Entries on page 16).

If another standing nomination is submitted that overlaps an existing standing nomination, the previous will be 'absorbed' by the newer nomination (i.e. overwritten).

Note

If you wish the standing nomination to commence on the current gas day, the submission must be made prior to 5:00 am (beginning of day cut-off time).

Injection Hedge Nomination Entry Rules

The following rules apply to Injection Hedge Nomination data entry:

AMDQ/AMDQ Credits	AMDQ Value criteria: • Absolute quantity to be defined in GJ. • Whole numbers only. • No decimal places are allowed.
AMIQ	Percentage of total AMDQ nominated. • Must not exceed distribution limits as indicated in the AMDQ profile table. (See: Figure 20) • There must be an entry for each interval; no gaps allowed (enter '0') • Total must be less than or equal to 100%.

The Injection Hedge Nomination Screen Header will load nomination information as it becomes available:

Nomination ID	A unique identifier will be generated when the nomination data is submitted.
Selection Criteria	Will be shown if applicable. (N/A for New Record). Will list ID and date range if historical nomination.
Last User ID	Will be shown if applicable. (N/A for New Record).
Last Updated	Will be shown if applicable. (N/A for New Record).
From Gas Day	As specified on **Nomination Selection** screen, or as selected in the **Apply Nomination To** field.
To Gas Day	As specified on **Nomination Selection** screen, or as selected in the **Apply Nomination To** field.

(See: **Figure 22).**

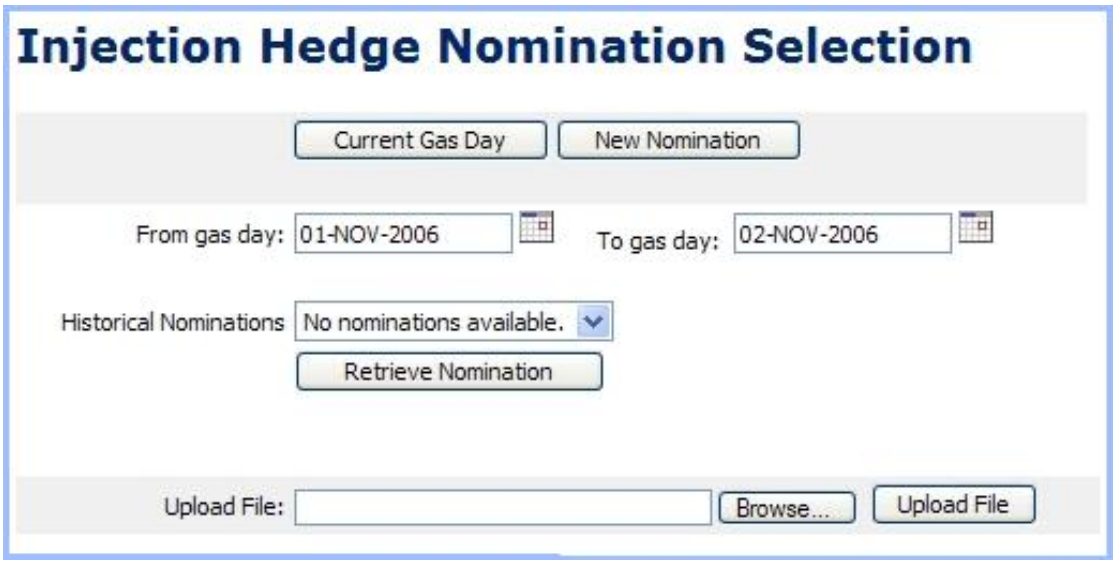


Figure 21: Injection Hedge Nomination Selection Screen

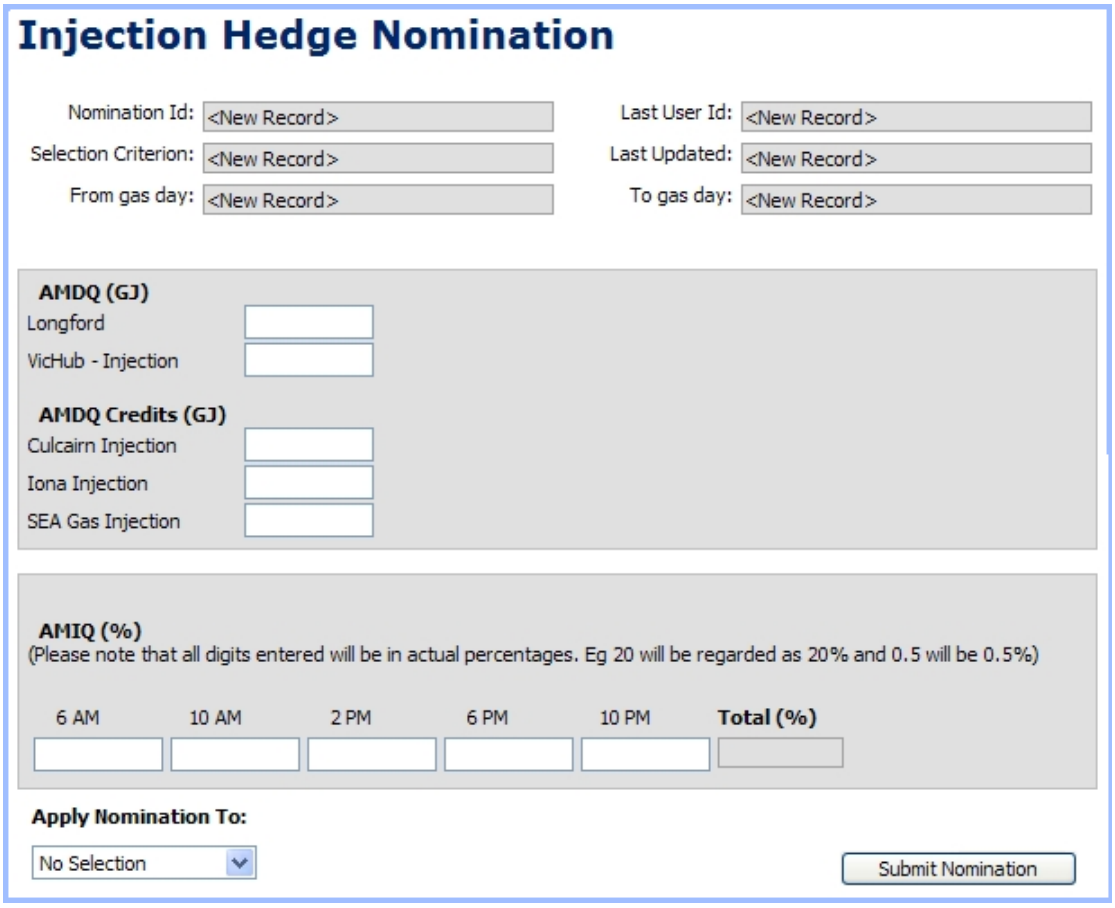
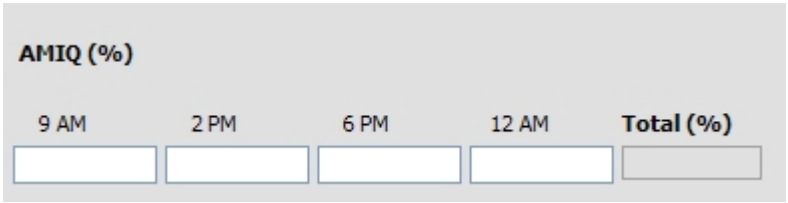


Figure 22: Injection Hedge Nomination Screen

Create Injection Hedge Nomination:

Task/Function	Steps/Details
New Injection Hedge Nomination	1. Click on the **Hedge Nomination** tab. The Injection Hedge Nomination Selection screen appears. 2. Select **New Nomination**. The Injection Hedge Nomination screen appears. 3. Select the required day from the **Apply Nomination To** drop down list: • Current Gas Day. • Day Ahead. • Two Days Ahead. • Standing Nomination.
Enter AMDQ Values	Enter the quantities (in GJ) in the AMDQ or AMDQ credit fields as required. There must be at least one entry.
Enter AMIQ	1. Enter the AMIQ percentages for each period.  2. AMIQ entries must follow AMDQ Indicative Validation rules. A value must be entered into each field. (See: ***Figure 20: AMIQ Indicative Validation Rules***). 3. Click **Submit Nomination.**
Confirm Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the nomination. 2. Click the **Confirm Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Revise Current Day Injection Hedge Nomination:

Note

This process must be completed before 5:00 am on the current gas day.

After that cut off time, no further revisions are permitted.

Task/Function	Steps/Details
Revise Current Day Injection Hedge Nomination	1. Click on the **Hedge Nomination** tab. The Injection Hedge Nomination Selection screen appears. 2. Select **Current Gas Day**. Opens the Injection Hedge Nomination screen for the Current Gas Day (i.e. with any existing data from previous entries that have been entered for the selected Meter and Bid Type). 3. Update **AMDQ** values as required. 4. Update **AMIQ %** values as required. 5. Click **Submit Nomination**.
Confirm Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this required the user to correct the entry and re-submit the nomination. 2. Click the **Confirm Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Create Standing Nomination

Standing hedge nomination data can be submitted at any time as required. The one restriction is that the commencement date must be at least one day ahead of the time of data entry.

Standing nominations remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered

overlapping that date range. When the overlapping nomination expires, the standing data comes back into effect.

See also: (Standing Entries on page 16).

Task/Function	Steps/Details
Create Standing Hedge Nomination	1. Click on the **Hedge Nomination** tab. The Injection Hedge Nomination Selection screen appears. 2. Select **New Nomination**. The Injection Hedge Nomination screen appears.
Specify Standing Hedge Nomination Period	Select **Standing Nomination** from the **Apply Nomination To** drop down list. The screen refreshes to show the date range fields for the Hedge Nomination :
	Select the **Commencement** and **Termination Dates** to specify the date range for which the nomination is to stand. (See also: *Date Selection* on page 27).
Enter Hourly Forecast Quantities	Enter the quantities (in GJ) in the **AMDQ** or **AMDQ Credit** fields as required. There must be at least one entry.
Enter AMIQ	1. Enter the **AMIQ Percentages** for each period. 2. AMIQ entries must follow AMDQ Indicative Validation rules. ***(See Figure 20: AMIQ Indicative Validation Rules on page 55)***. 3. Click **Submit Nomination**. The Injection Hedge Information and Confirmation Screen appears.

Task/Function	Steps/Details
Confirm Hedge Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re- submit the nomination. 2. Click the **Submit Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Upload Injection Hedge Nomination File:

Injection Hedge Nomination data can be uploaded via a correctly formatted .CSV file.

Note

For details on file format and specifications refer to your ***GMP – Participant Build Pack***.

- Refer to the ***Injection Hedge Nomination Interface*** section.

Task/Function	Steps/Details
Upload Injection Hedge Nomination File	1. Click on the **Hedge Nomination** Tab. 2. Click the **Browse** button on the File Upload Toolbar. (Figure 16). The standard **Choose File** window opens. 3. Locate and select the file to be uploaded and then click **Open**. The file name will be loaded into the address path window. 4. Click **Upload** File. 5. The Injection Hedge Nomination screen opens with all uploaded data. 6. Check that details are correct and then click **Submit Nomination**.
Confirm Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the nomination. 2. Click the **Confirm Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Agency Nominations

What is an Agency Hedge Nomination?

When a market participant wishes to nominate any portion of an injection bid into the market to be used on behalf of another market participant for the purposes of generating uplift hedge, this is called an Agency Injection Hedge Nomination.

Market participants must advise AEMO of all Agency Hedge Nominations.

There are two parties involved in this process:

- The **Injector:** The participant who holds available injection capacity at an injection point and wishes to transfer a portion of it to another participant in support of that participant's Authorised MDQ or AMDQ Credit for a period of time.
- The **Recipient:** The market participant to whom the AMIQ injection support is being transferred.

Agency Nominations can take on various forms relative to the terms of the agreement between the parties, and can involve two or more parties (i.e. one injector and a single or multiple recipients).

When an injecting participant nominates a recipient participant, the recipient will receive an auto-generated email Agency Hedge Nomination Confirmation request, which requires the recipient to reply (via the Agency Confirmation function in the WebExchanger) in order to accept the nomination.

The reply must be submitted prior to the 5:00 am bid cut off time on the gas day concerned.

Participant Roles

The Injector must notify AEMO of the arrangement via an Agency Hedge Nomination in the WebExchanger.

The Recipient(s) must confirm with AEMO that they have received, and agree to, the nomination via an Agency Confirmation in the WebExchanger.

Note

NOTE: The Beginning of Gas Day Bid Cut off time 5:00 am applies to all hedge nominations and confirmations.

The Agency Hedge Nomination and the Agency Confirmation must be received by 5:00 am on the gas day to which they apply. The nomination becomes 'registered' at this point and the scheduling and market settlement processes will take the nominations into calculations.

Once the nomination has been *confirmed* it can not be modified, although it may be withdrawn by the injector.

In the scenario where an agency nomination has been submitted and has been confirmed, and the injecting participant decides that the nomination needs to be changed, the nomination must be withdrawn and a new nomination submitted.

Timeline for Agency Nominations

Current gas day Agency Hedge Nominations *must be submitted before 5:00 am*.

Standing nominations must be entered prior to 5:00 am on the specified Commencement Date.

A submitted nomination can not be modified. If you wish to change the details on a nomination you must withdraw the original entry and then create a new one to replace it.

Agency Injection Hedge Nomination Entry Rules

The following rules apply to Agency Injection Hedge Nomination data entry:

Agency Nomination GJ	Nomination criteria: • Absolute quantity to be defined in GJ. • Whole numbers only. • No decimal places are allowed.
Participants	• No gaps allowed in the case of multiple entries.

The Agency Injection Hedge Nomination Screen Header will load nomination information as it becomes available:

Confirmation ID	This identifier will be generated when the nomination is submitted. This specifies the ID of the confirmation to the nomination (which will be at this point, pending).
Meter	The MIRN (Injection point).
Last User ID	Will be displayed if available (N/A for New Records).
Last Updated	Will be displayed if available (N/A for New Records).
Identity Number	This identifier will be generated when the nomination is submitted.

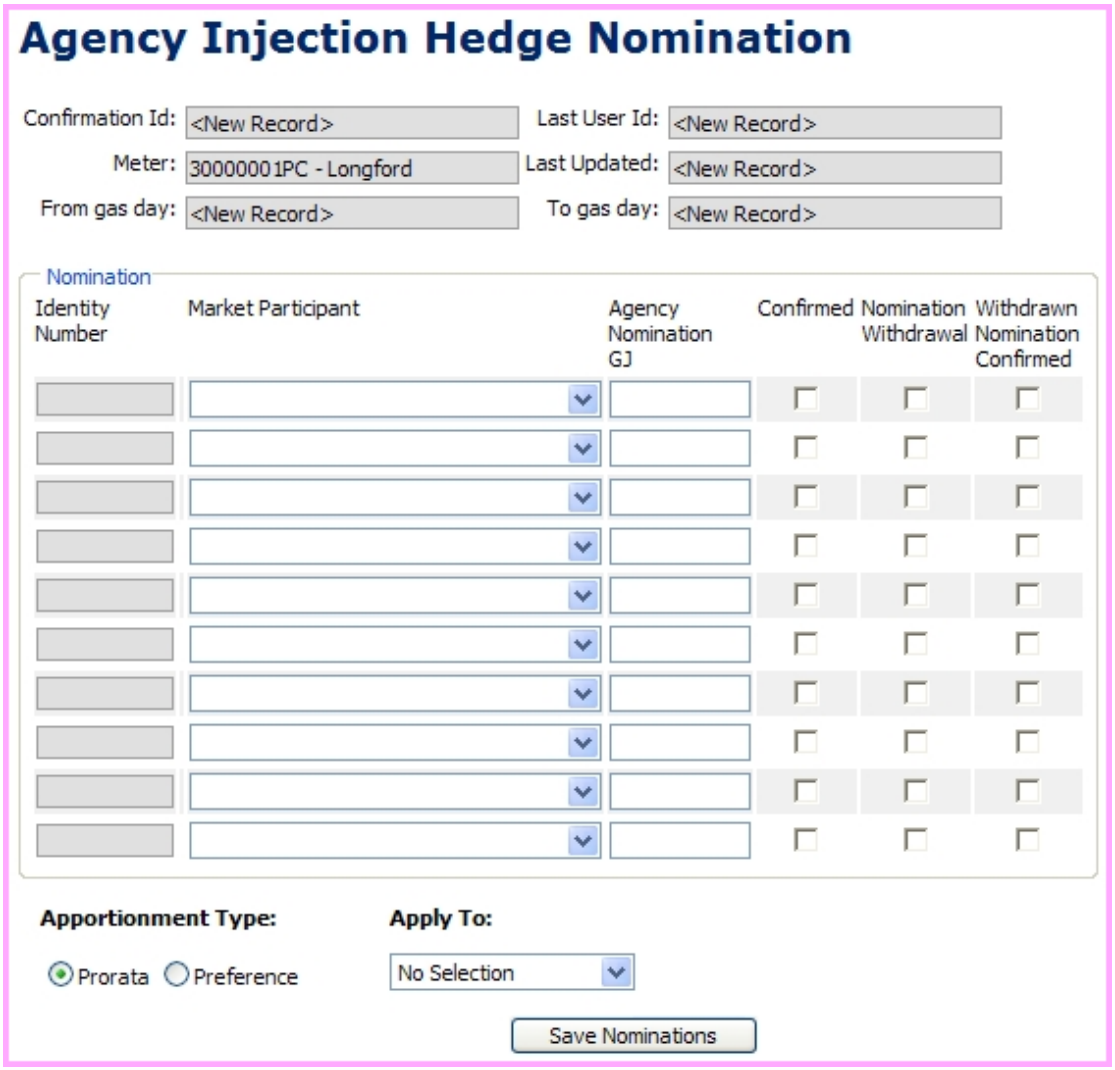


Figure 23: Agency Injection Hedge Nomination Screen

Apportionment Type

The apportionment type indicates how you would like to injection hedge quantities to be distributed among the listed participants in the event that it is not possible to schedule all specified gas.

Option	Description	If you select this option…
Prorata	Gas will be distributed proportionately (in % terms) among all participants listed, using the Agency Nomination GJ figures as the model.	• You can not nominate the same participant twice. • You can not nominate yourself.
Preference	Gas will be distributed first to the participant at the top of the list in full. Then the second on the list in full, and so on descending until it runs out.	• You can nominate a participant more than once. • There is no need to nominate your own Hedge nomination

as this is dealt with by the system prior to allocating any agency hedge nomination

Email Distribution Lists

All participants who wish to be involved in Agency Hedge Nominations (as nominator or nominee) should submit their email distribution preferences to AEMO.

For more information, see: ***Register for WebExchanger Access*** on page 2 of this guide, or call the AEMO helpdesk.

Create Agency Nomination

This function allows you to:

- Create a new agency hedge nomination.
- Search for an existing agency hedge nomination.
- Modify an existing nomination and save as new.
- Withdraw an agency hedge nomination.
- Upload an agency hedge nomination file.

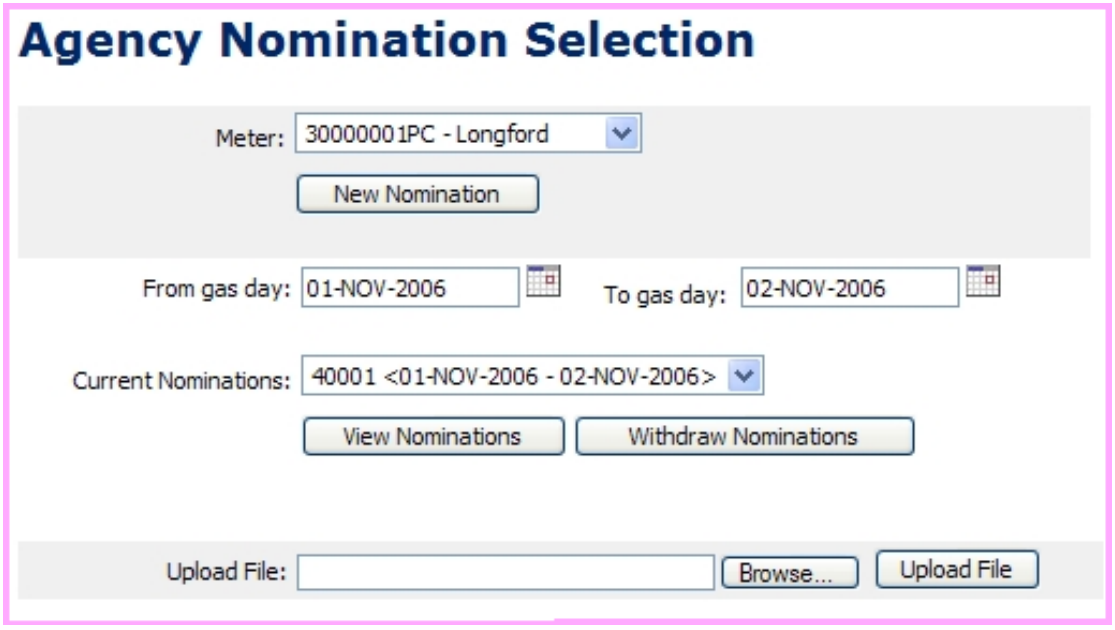


Figure 24: Agency Nomination Selection Screen

Create New Agency Injection Hedge Nomination:

Task/Function	Steps/Details
New Agency Injection Hedge Nomination	1. Click on the **Agency Nomination** tab. The **Agency Nomination Selection** screen appears. (Figure 24). 2. Select the **Meter** from the drop down list. 3. Select **New Nomination**: The **Agency Injection Hedge Nomination** screen appears. 4. Select the required day from the **Apply To** drop down list: • Current Gas Day. • Day Ahead. • Two Days Ahead. • Standing Nomination.
If Standing Nomination	For **Standing Nominations** you must select the Commencement Date and Termination Date. (For all other types, dates will auto select).
Select Participant and Enter Hedge Values	If you intend to select multiple market participants you must select the Apportionment Type. If single participant only, leave this as default. 1. Select the Apportionment Type: • Pro-rata: If the total of nominated AMDQ is not available, distribute the available AMDQ pro-rata in proportion to values specified. • Preference: If the total of nominated AMDQ is not available, distribute the available AMDQ to participants in order of preference until the AMDQ runs out. 2. Select the **Market Participant** from the first drop down list. 3. Enter the **Agency Nomination GJ**. 4. Repeat Steps 2 & 3 for extra participants. 5. Click **Submit Nomination.**

Task/Function	Steps/Details
Confirm Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the nomination. 2. Click the **Confirm Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Create Standing Agency Nomination

Standing agency nomination data can be submitted at any time as required. The one restriction is that the commencement date must be at least one day ahead of the time of data entry.

Standing nominations remain in effect for the duration specified in the Commencement and Termination Dates, but are overridden by other entries that are subsequently entered overlapping that date range. When the overlapping nomination expires, the standing data comes back into effect.

(See: Create New Agency Injection Hedge Nomination on page 67).

Search for Existing Nominations

Agency nominations are stored on the WebExchanger database for up to 18 months.

You may search for an existing nomination for reference purposes or to withdraw it.

Example:

If you submit a nomination for the current gas day at 4:15 am and then decide at 4:30 am that the details need to be modified, you must retrieve the nomination and withdraw it.

Then create a new nomination with the updated details and submit that. It is not possible to update and resubmit an existing nomination entry.

Use the **Agency Nomination Selection** screen to view any existing nomination stored in the WebExchanger database. Specify the date range within which to return all existing results.

Search/Select Existing Agency Nomination:

Task/Function	Steps/Details
Search/Select Existing Hedge Nomination	1. Click on the **Agency Nomination** tab. The **Agency Nomination Selection** screen appears. (Figure 24). 2. Select the **Meter** from the drop down list. To specify the search criteria: 3. Select the **From Gas Day.** 4. Select **the To Gas Day.** The screen refreshes to list all nominations within the date range for the selected metering point. 5. Select the entry from the **Current Nominations** drop down list. 6. Click on **View Nominations**. The nomination is displayed.

Withdraw Nomination

As an *Injecting* Market Participant, you have to the ability to withdraw any agency hedge nomination that you have made. The process is straight forward.

Note that in the case of multiple market participants nominated in a single entry, you have the option to withdraw one, some or all of the nominations. Each entry is treated separately.

Withdraw Agency Hedge Nomination:

Task/Function	Steps/Details
Withdraw Agency Hedge Nomination	1. Click on the **Agency Nomination** tab. The **Agency Nomination Selection** screen appears. (Figure 24). 2. Select the **Meter** from the drop down list. To specify the search criteria: 3. Select the **From Gas Day.** 4. Select **the To Gas Day.** The screen refreshes to list all nominations within the date range for the selected metering point. 5. Select the entry from the **Current Nominations** drop down list. 6. Click on **Withdraw Nominations**. 7. The nomination details are displayed. 8. Click in the **Nomination Withdrawn** check box next to each nomination that you wish to withdraw. 9. Click **Save Nominations**. 10. The updated details are submitted to AEMO. The screen refreshes with the message: **The selected nominations were withdrawn successfully.**

Note

The market participant will be notified of the withdrawn nomination and has until the cut off time to confirm. The nomination is withdrawn whether the participant confirms or not, so in a sense the confirmation is a procedural detail only.

Upload Agency Injection Hedge Nomination File:

Agency Hedge Nomination data can be uploaded via a correctly formatted .CSV file.

Note

For details on file format and specifications refer to your ***GMP – Participant Build Pack***.

- Refer to the ***Agency Injection Hedge Nomination Interface*** section.

Task/Function	Steps/Details
Upload Agency Hedge Nomination File	1. Click on the **Agency Nomination** Tab. 2. Click the **Browse** button next to the Upload File field. The standard **Choose File** window opens. 3. Locate and select the file to be uploaded and then click **Open**. The file name will be loaded into the address path window. 4. Click **Upload** File. 5. The Agency Injection Hedge Nomination screen opens with all uploaded data. 6. Check that details are correct and then click **Save Nominations**.
Confirm Nomination	The final step in the process is to confirm the nomination. 1. Verify that all details are correct. NOTE that if there are any entry errors, there will be an on screen message regarding the problem. In most cases this will require you to correct the entry and re-submit the nomination. 2. Click the **Confirm Nomination** button. The screen refreshes with the message: **The nomination was submitted successfully.**

Agency Confirmation

As a Market Participant ***receiving*** an agency nomination from an injecting market participant, you are required to formally confirm receipt and acceptance of the nomination.

When a nomination has been made on your behalf, you will receive an email request to confirm the nomination details.

As the receiving participant, you must submit confirmation via the Agency Confirmation function in the WebExchanger. Confirmation must be received before the 5:00 am start of day bid cut off time on the day to which the nomination applies.

After you have confirmed the nomination, an email notification will be generated and sent to the nominating participant (injector) of the confirmation.

Notification

There are two ways in which you will be notified when an agency nomination has been made on your behalf:

- Via email. An email is generated and sent in accordance with your distribution arrangements with AEMO.
- Via the WebExchanger. You can log onto the WebExchanger at any time for updates on any nomination that has been made concerning you.

The Agency Injection Hedge Confirmation Screen Header will load nomination information as it becomes available:

Nomination ID	This identifier is generated when the nomination is originally submitted.
Meter	The MIRN (Injection point).
Last User ID	Will be displayed if available.
Last Updated	Timestamp of last activity on this nomination.
Commencement/Termination Gas Days	Defines the range within which the nomination takes effect.
Injector	The injecting participant.
Agency Nomination GJ	The total quantity of the nomination in GJ.
Nomination Withdrawn	Will indicate if a nomination has been withdrawn. Recipient is required to confirm withdrawn nominations.

(See Figure 26)

To View Agency Injection Hedge Nominations:

Task/Function	Steps/Details
View Agency Injection Hedge Nomination	1. Click on the **Agency Confirmation** tab. The **Agency Confirmation Selection** screen appears. (Figure 25). To specify the search criteria: 2. Select the **Meter** from the drop down list. The Metering Point from where the nomination originated. 3. Select the **Injector** from the drop down list The Injecting Market Participant from who the nomination originated. 4. Select the **From Gas Day.** 5. Select **the To Gas Day.** The screen refreshes to list all nominations within the date range for the selected metering point. 6. Select the entry from the **Current Nominations** drop down list. 7. Click on **View/Verify Nominations**.

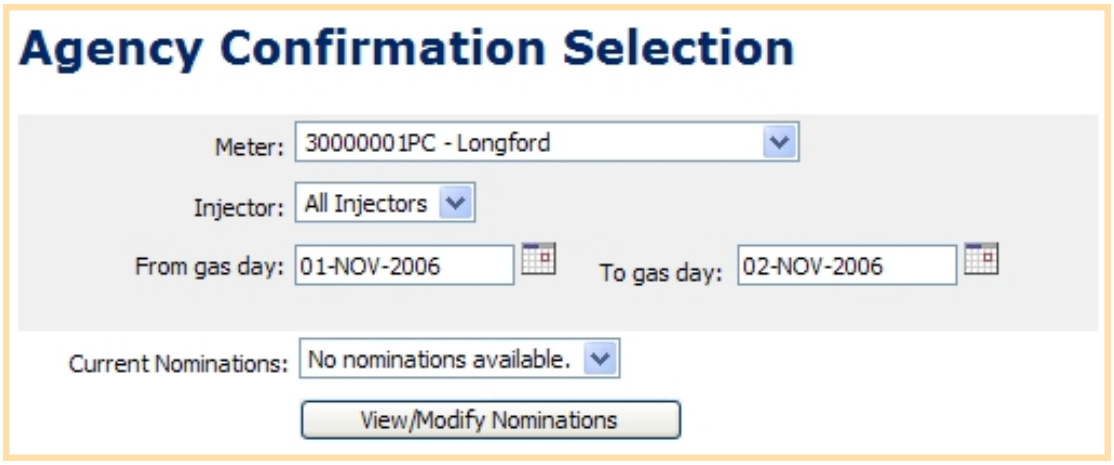


Figure 25: Agency Confirmation Selection Screen

Confirm Agency Injection Hedge Nomination:

Task/Function	Steps/Details
Confirm Agency Injection Hedge Nomination	1. Click on the **Agency Confirmation** tab. The **Agency Confirmation Selection** screen appears. (Figure 25). To specify the search criteria: 2. Select the **Meter** from the drop down list. This is the Metering Point from where the nomination originated. 3. Select the **Injector** from the drop down list The Injecting Market Participant from who the nomination originated. 4. Select the **From Gas Day.** 5. Select **the To Gas Day.** The screen refreshes to list all nominations within the date range for the selected metering point. 6. Select the entry from the **Current Nominations** drop down list. 7. Click on **View/Verify Nominations**. The **Agency Injection Hedge Confirmation Selection** screen appears (Figure 26). 8. Click in the **Confirm?** check box next to each nomination that you wish to confirm. 9. Click **Save Changes**.

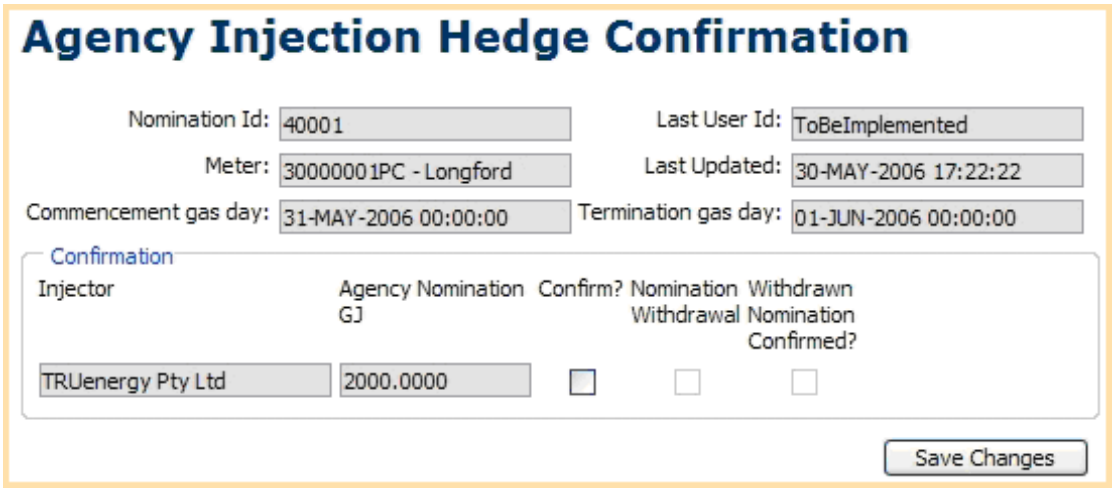


Figure 26: Agency Injection Hedge Confirmation Screen

Confirm Withdrawn Agency Hedge Nomination:

Task/Function	Steps/Details
Confirm Withdrawn Agency Hedge Nomination	1. Click on the **Agency Confirmation** tab. The **Agency Confirmation Selection** screen appears. (Figure 25). To specify the search criteria: 2. Select the **Meter** from the drop down list. The Metering Point from where the nomination originated. 3. Select the **Injector** from the drop down list The Injecting Market Participant from who the nomination originated. 4. Select the **From Gas Day.** 5. Select **the To Gas Day.** The screen refreshes to list all nominations within the date range for the selected metering point. 6. Select the entry from the **Current Nominations** drop down list. 7. Click on **View/Verify Nominations**. The **Agency Injection Hedge Confirmation Selection** screen appears (Figure 26). **NOTE** that withdrawn nominations are indicated by the Nomination Withdrawn check box having a tick. 8. Click in the **Withdrawn Nomination Confirmed?** check box next to the withdrawn nomination. 9. Click **Save Changes**. The updated details are submitted to AEMO. Email notification is sent to the injector advising that the withdrawal of the nomination has been confirmed.

Appendix A

Appendices

Web Services Automation

The AEMO WebExchanger application is designed to allow participants to enter information relating to bids, demand forecasts and other relevant data to be used in the AEMO gas scheduling and settlements processes.

There are two main modes of operation catered for:

- **Interactive:** The WebExchanger User Interface accessed via a web browser to review and submit data as required. This mode allows for Comma-Separated Values (CSV) files generated to be uploaded (via a web browser) into the WebExchanger and used to populate the screen.
- **Automated (Web Services):** Participant systems interact with the application via a standard protocol to obtain the necessary data and submit requests in an automated fashion.

(For Web Services information, refer to: ***GMP Participant Build Pack, Section 4 - Web Services Automation***).

The Build Pack describes the automated functionality of WebExchanger with respect to:

- the technologies used to implement the functionality
- the reasoning behind the technology choices, and
- how participants will interact with the service.

The WebExchanger Web Services are split up into a number of discrete services relating to particular areas of functionality:

- Bid service.
- Demand forecast service.
- Injection hedge nomination service.
- Agency injection hedge nomination service.
- System service.

Appendix B

WebExchanger Data Upload File Formats

In order to meet the requirements of the Market Participants, a .CSV file upload feature has been added to the following screens:

- Bid Selection.
- Demand Forecast Selection.
- Injection Hedge Nomination Selection.
- Agency Nomination Selection.

The purpose of the upload function is to expedite the data entry process. The file upload is used to 'populate' the screen; however, the submission of the entry must be done manually.

For all respective file formatting rules and specifications, refer to your GMP – Participant Build Pack.

Appendix C

MIBB Reports

The following tables described the technical report formats for WebExchanger generated MIBB reports.

INT103a Bid Confirmation Report

Trigger Type: Event-triggered: UINOM (Submission of Nomination)

Published: Successful submission of bid

Audience: Market Participants

GMP Impact

1. Change to report layout.
2. Change to output filename.

Report Purpose

This report confirms the successful submission of a bid:

- by the Market Participant
- via the Web Exchanger
- with AEMO.

This report is produced in accordance with clause 3.1.9(c) of the MSOR.

Audience Notes

1. One report is generated each time a bid is successfully submitted.
2. The submitting Market Participant is the only party able to access a given report.

Content Notes

1. Each report confirms details of one successfully submitted bid.
2. Each row in the report contains either price or quantity details for the specified bid.
3. This report contains 2 rows for each bid listed.
    a. The first row (type_2 = a) will contain the price steps for the bid.
    b. The second row (type_2 = b) will contain the cumulative quantity steps for the bid.
4. Contents in the type_1 field should correspond to contents in the offer_type field.

5. The mod_datetime and the bid_start_date should be compared against the various cut-off times specified for the gas market to determine in which scheduling horizon the bid will be used in the scheduling process (assuming there are no later bids submitted).

Example A:

- mod_datetime = 20 Feb 2007 04:39:00
- bid_start_date = 20 Feb 2007

This bid will be used by AEMO as an input to the current day schedule published at 06:00 on 20 Feb 2007.

Example B:

- mod_datetime = 20 Feb 2007 05:07:00
- bid_start_date = 20 Feb 2007

This bid will be used by AEMO as an input to the current day schedule published at 10:00 on 20 Feb 2007.

Data Content

The following table describes the technical report format for WebExchanger generated MIBB report INT103a.

Column Name	Datatype	Description
bid_start_date	**varchar(20)**	(eg 30 Jun 2007)
bid_termination_date	varchar(20)	(eg 30 Jun 2007)
type_1	**char(1)**	**'a' injections** **'b' controlled withdrawals** **NB: Used for grouping and ordering**
type_2	**char(1)**	**'a' indicates price record** **'b' indicates quantity record** **NB: Used for grouping and ordering**
participant_id	**integer**	**Participant id number**
participant_name	varchar(40)	Participant name
Code	**varchar(16)**	**MIRN number for injection or withdrawal point**
name	varchar(40)	MIRN number as above
offer_type	**varchar(5)**	**Injection ('INJEC')** **withdrawal ('CTLW')**
step1	varchar(10)	Price ($) or quantity for step 1
step2	varchar(10)	Price ($) or quantity for step 2
step3	varchar(10)	Price ($) or quantity for step 3
step4	varchar(10)	Price ($) or quantity for step 4
step5	varchar(10)	Price ($) or quantity for step 5
step6	varchar(10)	Price ($) or quantity for step 6
step7	varchar(10)	Price ($) or quantity for step 7
step8	varchar(10)	Price ($) or quantity for step 8
step9	varchar(10)	Price ($) or quantity for step 9
step10	varchar(10)	Price ($) or quantity for step 10

bid_id	integer	The id of each accepted set of bids for a gas day
min_daily_ qty	integer	Minimum daily quantity in GJ
mod_user	char(20)	User who last modified record
mod_datetime	char(20)	Time bid accepted (eg 30 Jun 2007 06:00:00)
current_date	varchar(20)	Date and Time Report Produced. eg 29 Jun 2007 01:23:45

INT103b Injection Hedge Confirmation

Trigger Type: Event-triggered: UINOM (Submission of AMIQ)

Published: Successful submission of injection hedge nomination

Audience: Market Participants

GMP Impact

This is a new report introduced as part of the re-design of the gas market.

Report Purpose

This report confirms the successful submission of an injection hedge nomination for

a gas day:

- by the Market Participant
- via the Web Exchanger
- with AEMO.

It is produced after the injection hedge nomination has been accepted by AEMO systems. This report is produced in accordance with clause 3.1.9(c) of the MSOR.

Audience Notes

1. One report is generated each time an injection hedge nomination is successfully submitted.
2. The submitting Market Participant is the only party able to access a given report.

Content Notes

1. Each report confirms the details of one successfully submitted injection hedge nomination.
2. Each row in the report provides the AMIQ, AMDQ or AMDQ certificate details associated with the submission.
3. AMIQ is a profile, and so is specified as a percentage per scheduling interval.
4. AMDQ and AMDQ_CR are quantities specified in GJ.
5. The mod_datetime and the commencement_date should be compared against the cut-off time specified in the market rules for injection hedge nominations to determine when the submission will be used in the scheduling process (assuming there are no later submissions).

Example:

- mod_datetime = 20 Feb 2007 04:39:00
- commencement_date = 20 Feb 2007

This submission will be used by AEMO as an input to the current day schedule published at 06:00 on 20 Feb 2007.

Under clause 3.1.7(b), hedge nominations are only accepted up until 5:00am on the gas day to which they relate.

Data Content

The following table describes the technical report format for WebExchanger generated

MIBB report INT103b.

Column Name	Datatype	Description
injection_hedge_id	**Int**	The id of each accepted injection hedge nomination.
commencement_date	**varchar(20)**	(eg 30 Jun 2007)
termination_date	varchar(20)	(eg 30 Jun 2007)
type	**varchar(10)**	**AMIQ** **AMDQ** **AMDQ_CR**
data_flag	**varchar(10)**	**For AMIQ:** **'S1' – schedule interval 1** **'S2'– schedule interval 2** **'S3' – schedule interval 3** **'S4' – schedule interval 4** **'S5' – schedule interval 5** **For AMDQ or AMDQ_CR** **MIRN for injection point**
quantity	Numeric	AMIQ quantity in PCT or AMDQ/AMDQ Credits in GJ
unit	varchar(5)	GJ or PCT(percentages)
mod_user	varchar(30)	User who last modified record
mod_datetime	varchar(20)	Time nomination accepted (eg 30 Jun 2007 06:01:23)
current_date	varchar(20)	Date and Time Report Produced. eg 29 Jun 2007 01:23:45

INT103c Demand Forecast Confirmation

Trigger Type: Event-triggered: UINOM (Submission of Forecast)

Published: Successful submission of demand forecast

Audience: Market Participants

GMP Impact

This is a new report introduced as part of the re-design of the gas market.

Report Purpose

This report confirms the successful submission of a demand forecast:

- by the Market Participant
- via the Web Exchanger
- with AEMO.

It is produced after the demand forecast has been accepted by AEMO's systems.

This report is produced in accordance with clause 3.1.9(c) of the MSOR.

Audience Notes

1. One report is generated each time a demand forecast is successfully submitted.
2. The submitting Market Participant is the only party able to access a given report.

Content Notes

1. Each report confirms the details of one successfully submitted demand forecast.
2. Each row in the report provides the demand forecast quantity (in GJ) for one hour of the gas day:

- ti = 1 is the first hour of the gas day (06:00)
- ti = 2 is the second hour of the gas day (07:00)

3. The mod_datetime and the commencement_date should be compared against the demand forecast cut-off times specified in the market rules to determine the scheduling horizon(s) in which the submission will be used in the scheduling process (assuming there are no later submissions).

Example A:

- mod_datetime = 20 Feb 2007 04:39:00
- commencement_date = 20 Feb 2007

This demand forecast will be used by AEMO as an input to the current day schedule published at 06:00 on 20 Feb 2007.

Example B:

- mod_datetime = 20 Feb 2007 05:07:00
- commencement_date = 20 Feb 2007

This demand forecast will be used by AEMO as an input to the current day schedule published at 10:00 on 20 Feb 2007.

Data Content

The following table describes the technical report format for WebExchanger generated MIBB report INT103c

Column Name	Datatype	Description
forecast_id	**int**	The id of each accepted injection hedge nomination.
commencement_date	**varchar(20)**	(eg 30 Jun 2007)
termination_date	varchar(20)	(eg 30 Jun 2007)
ti	**int**	**Time interval (1-24)**
data_flag	**varchar(10)**	**For non-site specific forecasts:** **'NONSITE'** **For site specific forecasts:** **MIRN for the site**
quantity_gj	int	Demand forecast quantity in GJ.
mod_user	varchar(30)	User who last modified record
mod_datetime	varchar(20)	Time nomination accepted (eg 30 Jun 2007 06:01:23)
current_date	varchar(20)	Date and Time Report Produced. eg 29 Jun 2007 01:23:45

INT131 Bids at Schedule Bid Cut off Times for Previous 2 Days - not including current day

Trigger Type: Time- triggered

Published: Daily at 9.30 AM

Audience: Public

GMP Impact

1. Report layout changes to reflect:
    - Introduction of multiple scheduling horizons
    - Removal of the concept of nominations
2. Change in output filename.

Report Purpose

This public report lists the detail of injection and controllable withdrawal bids hat were used as inputs to the scheduling processes run on the previous 2 gas days.

This report meets AEMO's statutory reporting requirement as specified in clause 3.1.5(h) of the MSOR (version 26).

Audience Notes

1. Information published in this report is historical. It is no longer commercially sensitive, and is intended to assist in the provision of transparency in the determination of market prices.
2. Information is available to each Market Participant to confirm the receipt of each of their own submissions, therefore this report is not designed for confirmation purposes.

Content Notes

Each report contains the details of all the bids that were used as input to approved schedules run for the previous 2 days (not including the current gas day).

1. All bids used at the time of scheduling are listed, regardless of whether they were submitted on the date of the schedule, or on a prior day.
2. Each row in the report contains either price or quantity details for a bid, along with the characteristics (schedule_time and bid_cutoff_time) for the schedule to which the bid as an input.
3. This report contains 2 rows for each bid listed:

- The first row (type_2 = a) will contain the price steps for the bid

- The second row (type_2 = b) will contain the cumulative quantity steps for the bid

4. Contents in the type_1 field should correspond to contents in the offer_type field.
5. Contents in the gas_date field and the current_date field for a row should correspond to contents in the schedule_type field.

For Example:

- gas_date = 5 Feb 2007
- current_date = 7 Feb 2007

Therefore, schedule_type = D+2.

6. The bid_cutoff_time and schedule_time fields can be used to differentiate between intra-day bids

It should be noted that a single bid_id may be repeated for multiple bid_cutoff_times.

Data Content

The following table describes the technical report format for WebExchanger generated MIBB report INT131.

Column Name	Datatype	Description
gas_date	**varchar(20)**	**Starting hour of gas day being reported eg 30 Jun 2007**
type_1	**char(1)**	**'a' injections 'b' controlled withdrawals NB: Used for grouping and ordering**
type_2	**char(1)**	**'a' indicates price record 'b' indicates quantity record NB: Used for grouping and ordering**
participant_id	**Integer**	**Participant id number**
participant_name	varchar(40)	Participant name
code	**varchar(16)**	**MIRN number for injection or withdrawal point**
name	varchar(40)	MIRN number as above
offer_type	**varchar(5)**	**Injection ('INJEC') withdrawal ('CTLW')**
step1	varchar(10)	Price ($) or quantity for step 1
step2	varchar(10)	Price ($) or quantity for step 2
step3	varchar(10)	Price ($) or quantity for step 3
step4	varchar(10)	Price ($) or quantity for step 4
step5	varchar(10)	Price ($) or quantity for step 5
step6	varchar(10)	Price ($) or quantity for step 6
step7	varchar(10)	Price ($) or quantity for step 7
step8	varchar(10)	Price ($) or quantity for step 8

step9	varchar(10)	Price ($) or quantity for step 9
step10	varchar(10)	Price ($) or quantity for step 10
min_daily_qty	Integer	Minimum daily quantity in GJ
bid_id	**Integer**	
bid_cutoff_time	varchar(8)	Bid cut off time for schedule (eg 5:00:00, 9:00:00 etc
schedule_type	**Char(5)**	**D + 1 means nomination for 1 day after current day. D + 2 means nomination for 2 days after current day.**
schedule_time	varchar(8)	Time of schedule (eg 6:00:00, 10:00:00 etc
current_date	varchar(20)	Date and Time Report Produced. Eg: 30 Jun 2005 1:23.56

Appendix D

Bidding Check List

It is important that all bids are submitted on time and completed.

The following tables have been designed as simple checklists in order to help participants to verify that all data has been correctly submitted.

Injection Bid Checklist:

Task/Function	Steps/Details
Bids	Some participants have multiple injection points in their portfolio. A set of bids must be submitted for EACH POINT at which the participant intends to inject gas into the system. Bid Steps must be entered within the following guidelines: • Price in $/GjJ to four decimal places (e.g. $4.5500). • Price can be zero if the first or only step in the bid. • Quantity in whole GJs (e.g. 120) • Incrementally increasing in price and quantity.. • Consecutively (i.e. no gaps). • Bid Step 1 Quantity must be ≥ Minimum Daily Quantity.
Demand Forecast	Demand Forecast applies to 'uncontrollable' withdrawals only.
Hedge Nomination (Optional)	• Enter correct injection point. • Quantity correct? • ADIQ %s with AMDQ Profile limits? • Correct Dates (Apply To)?
Agency Hedge Nomination	• Enter correct injection point. • Select correct Apportionment Type. • Quantities correct? • Correct Dates (Apply To)?
Agency Confirmation	• Correct nomination ID? • Correct data Range?

Withdrawal Bid Checklist:

Task/Function	Steps/Details
Bids	Some participants have multiple withdrawal points in their portfolio. A set of bids must be submitted for EACH POINT at which the participant intends to withdraw gas from the system. Bid Steps must be entered within the following guidelines: • Price in $/GjJ to four decimal places (e.g. $4.5500). • Price can be zero if the last or only step in the bid. • Quantity in whole GJs (e.g. 120) • Quantity increases, price decreases with each step. • Consecutively (i.e. no gaps). • Bid Step 1 Quantity must be ≥ Minimum Daily Quantity.
Demand Forecast	Demand Forecast values must be entered within the following guidelines: • Quantity in whole GJs only (e.g. 20) • Values must be submitted for all hourly intervals. • Don't leave field blank, enter 0. • Check meter is correct. • Check Dates.
Hedge Nomination	N/A
Agency Hedge Nomination	N/A
Agency Confirmation	N/A

Acronyms and Terms

Acronym/Term	Description
AMDQ	Authorised Maximum Daily Quantity.
AMIQ	Authorised Maximum Interval Quantity.
BoD	Beginning of Day. The gas day is defined as being from 6:00am until 6:00am on the following day.
Day Ahead (Day + 1)	A bid, demand forecast or hedge nomination entry which applies to the day following the date of entry (i.e. the next gas day). There are various reasons why these entries are important. The day ahead entry can assist AEMO with forward planning and act as a back up in the case of current day data failure. Until a gas day commences, it's corresponding Day Ahead entries serve as the last approved operational data for the day. Often referred to as Day + 1.
2 Days Ahead (Day +2).	Same as for Day Ahead entries, except entered 2 days in advance of the gas day to which the data applies. Often referred to as Day + 2.
Minimum Daily Quantity	In the case of an injection bid, the minimum quantity of gas which the market participant is offering to inject for the day to which the offer relates. In the case of a withdrawal bid, the minimum quantity of gas which the market participant is offering to withdraw for the day to which the offer relates.
MIRN	Metering Installation Registration Number.
MSOR	Market System Operating Rules.
SDPC	Supply and Demand Point Constraints.
VoLL	A price cap, being the maximum, on the market price of gas. This is currently set at $800/GJ. AEMO reviews this figure regularly, as a requirement of the MSOR.